harman/kardon **Service Manual**

AVR 347/230
AVR 350/230
7 x 55W 7.1 CHANNEL A/V RECEIVERS

AVR 347
DVD /COAX 1
LOGIC 7 7CH CI
Volume
Set
Tone Mode
Speaker
Channel
Digital Select
Delay
harman/kardon
Surr. Mode
Surr. Select
Tuning
AM/FM
Preset
Source
Tun Mode
Phones
Setup MIC
Optical 4
Coaxial 4
Digital Input
S-Video
Video
L – Audio – R
Video 4

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(For Semiconductor Pinouts, see separate file)

Released EU2008

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Rev 0, 07/2008

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field effect transistors and semiconductor "chip" components.

The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge build-up or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical change sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material.)
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

   CAUTION : Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together or your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES devices.

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing.

Components identified with the IEC symbol ⚠ in the parts list are special significance to safety. When replacing a component identified with ⚠, use only the replacement parts designated, or parts with the same ratings or resistance, wattage, or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before retuming the product to the customer.

Technical Specifications

Audio Section

Stereo Mode

Continuous Average Power (FTC)

70 Watts per channel, 20Hz–20kHz,
@ < 0.07% THD, both channels driven into 8 ohms

7 Channel Surround Modes

Power Per Individual Channel (all channels driven simultanously)

Front L&R channels:
55 Watts per channel,
@ < 0.07% THD, 20Hz–20kHz into 8 ohms

Center channel:
55 Watts, @ < 0.07% THD, 20Hz–20kHz into 8 ohms

Surround (L & R Side, Back) channels:
55 Watts per channel,
@ < 0.07% THD, 20Hz–20kHz into 8 ohms

Input Sensitivity/Impedance	
Linear (High Level)	200mV/47kohms
Signal-to-Noise Ratio (IHF-A)	100dB
Surround System Adjacent Channel Separation	
Analog Decoding (Pro Logic, etc.)	40dB
Dolby Digital (AC-3)	55dB
DTS	55dB
Frequency Response	
@ 1W (+0dB, –3dB)	10Hz–130kHz
High Instantaneous Current Capability (HCC)	±35 Amps
Transient Intermodulation Distortion (TIM)	Unmeasurable
Rise Time	16 µsec
Slew Rate	40V/µsec**

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FM Tuner Section

Frequency Range	87.5–108MHz
Usable Sensitivity	IHF 1.3 µV/13.2dBf
Signal-to-Noise Ratio	Mono/Stereo: 70/68dB (DIN)
Distortion	Mono/Stereo: 0.2/0.3%
Stereo Separation	40dB @ 1kHz
Selectivity	±400kHz: 70dB
Image Rejection	80dB
IF Rejection	90dB

AM Tuner Section

Frequency Range	522–1620kHz
Signal-to-Noise Ratio	45 dB
Usable Sensitivity	Loop: 500 µV
Distortion	1kHz, 50% Mod: 0.8%
Selectivity	±10kHz: 30dB

Video Section

Video Format	PAL/NTSC
Input Level/Impedance	1Vp-p / 75 ohms
Output Level/Impedance	1Vp-p / 75 ohms
Video Frequency Response (Composite and S-Video)	10Hz–8MHz (-3dB)
Video Frequency Response (Component)	10Hz–100MHz (-3dB)

General

Power Requirement	AC 220–240V / 50Hz
Power Consumption	118W idle, 890W maximum (7 channels driven)
Dimensions (Max)	
Width	440mm
Height	165mm
Depth	382mm
Weight	13.9 kg

Depth measurement includes knobs, buttons and terminal connections.
Height measurement includes feet and chassis.
All features and specifications are subject to change without notice.

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**Without input anti slewing and output isolation networks.

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Troubleshooting Guide

SYMPTOM	CAUSE	SOLUTION
Unit does not function when **Main Power Switch** 1 is pushed	• No AC Power	• Make certain AC power cord is plugged into a live outlet • Check to see if outlet is switch controlled
Display lights, but no sound or picture	• Intermittent input connections • **Mute** is on • Volume control is down	• Make certain that all input and speaker connections are secure • Press **Mute** button 39 G • Turn up volume control
No sound from any speaker; light around **Power switch** 2 is red	• Amplifier is in protection mode due to possible short • Amplifier is in protection mode due to internal problems	• Check speaker-wire connections for shorts at receiver and speaker ends • Contact your local Harman Kardon service depot
No sound from surround or center speakers	• Incorrect surround mode • Input is mono • Incorrect configuration • Stereo or Mono program material	• Select a mode other than Stereo • There is no surround information from mono sources (except with Theater and Hall surround modes) • Check speaker mode configuration • Some surround modes may not create rear-channel information from nonencoded programs
Unit does not respond to remote commands	• Weak batteries in remote • Wrong device selected • **Remote sensor** 24 is obscured	• Change remote batteries • Press the **AVR Selector** 6 • Make certain front-panel sensor is visible to remote or connect remote sensor
Intermittent buzzing in tuner	• Local interference	• Move unit or antenna away from computers, fluorescent lights, motors or other electrical appliances
Letters flash in the **Channel Indicator Display** 14 and Digital Audio stops	• Digital audio feed paused	• Resume play for DVD • Check that Digital Signal is fed to the Digital Input selected

Processor Reset

In the rare case where the unit's operation or the displays seem abnormal, the cause may involve the erratic operation of the system's memory or microprocessor.

To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes. After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem.

To clear the AVR's entire system memory including tuner presets, output level settings, delay times and speaker configuration data, first put the unit in Standby by pressing the **System Power Control** button 2. Next press and hold the **Tone Mode button** 8 for three seconds.

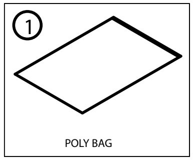
The unit will turn on automatically. Note that once you have cleared the memory in this manner, it is necessary to re-establish all system configuration settings and tuner presets.

NOTE: Resetting the processor will erase any configuration settings you have made for speakers, output levels, surround modes, digital input assignments as well as the tuner presets. After a reset the unit will be returned to the factory presets, and all settings for these items must be reentered.

If the system is still operating incorrectly, there may have been an electronic discharge or severe AC line interference that has corrupted the memory or microprocessor.

If these steps do not solve the problem, consult an authorized Harman Kardon service depot.

1. Instruction manual ass'y - Accessories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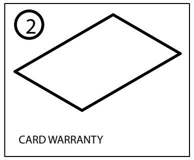
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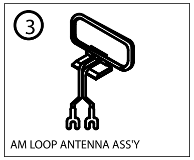
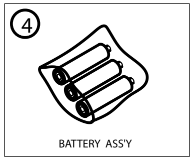

③ AM LOOP ANTENNA ASS'Y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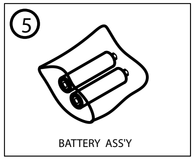
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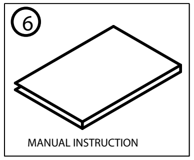
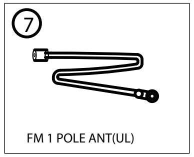
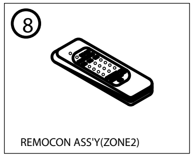
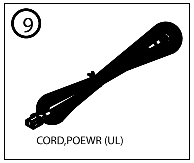
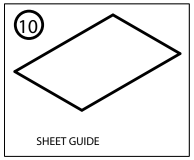
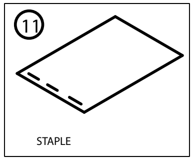

⑥ MANUAL INSTRUCTION


⑦ FM 1 POLE ANT(UL)


⑧ REMOCON ASS'Y(ZONE2)


⑨ CORD,POEWR (UL)


⑩ SHEET GUIDE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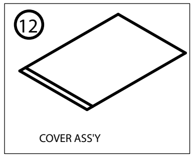
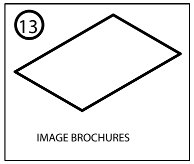

⑫ COVER ASS'Y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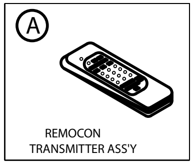
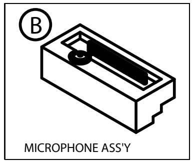
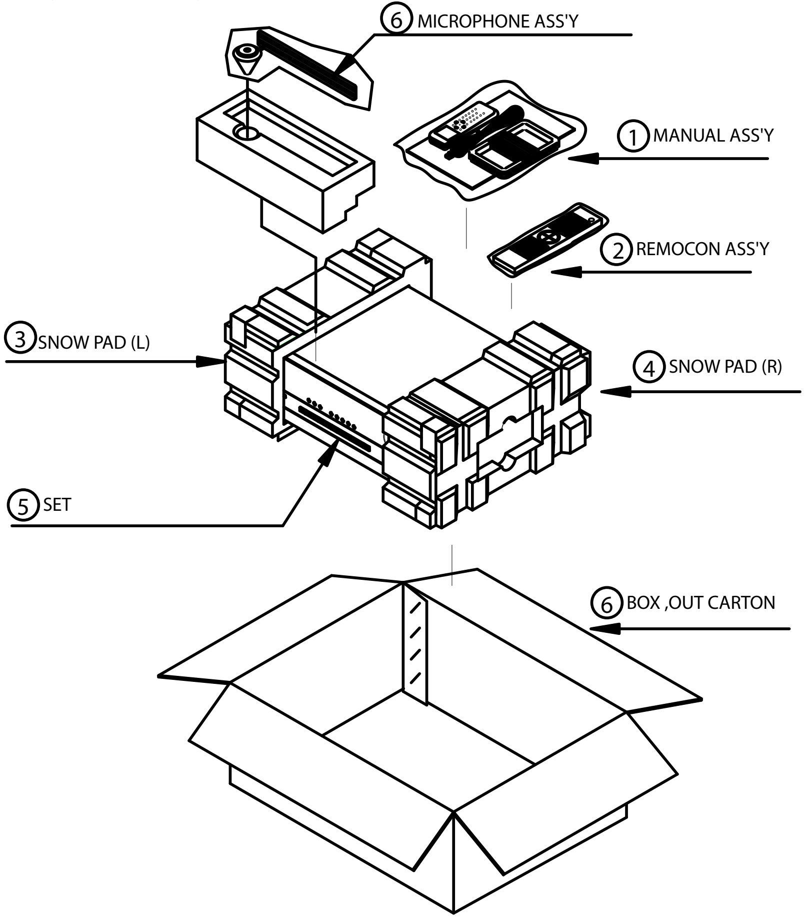

Ⓐ REMOCON TRANSMITTER ASS'Y


Ⓑ MICROPHONE ASS'Y

NO	DESCRIPTION	PARTS NO.	Q,ty
1	POLY BAG	CPB1061Y	1
2	CARD WARRANTY	CQE1A172X	1
3	AM LOOP ANTENNA ASS'Y	CSA1A027Z	1
4	BATTERY	CABR03P3	3
5	BATTERY	CANR03P	2
6	INSTRUCTION MANUAL	CQX1A1185Z	1
7	FM 1 POL ANT(UL)	CSA1A019Z	1
8	REMOCON ASS'Y(ZONE2)	HARTZONE23	1
9	CORD,POWER(UL)	CJA2A070Z	1
10	SHEET GUIDE	CQE1A331Z	1
11	STAPLE	KPL0905	3
12	COVER ASS'Y	CGRAVR130ZA	1
	1 COVER A	CGR1A331M7H43	1
	2 COVER B	CGR1A332M7H43	1
	3 SHEET,FRONT COVER	CQE1A219Z	1
	4 PAD, COVER	CPS1A676	1
	5 BAG , POLY	CPB1A176Z	1
13	IMAGE BROCHURES	HQE1A273Z	1
A	REMOCON ASS'Y	CARTAVR347	1
B	MICROPHONE ASS'Y	CJXAVR340MICRO	1

2. Package Drawing

AVR347



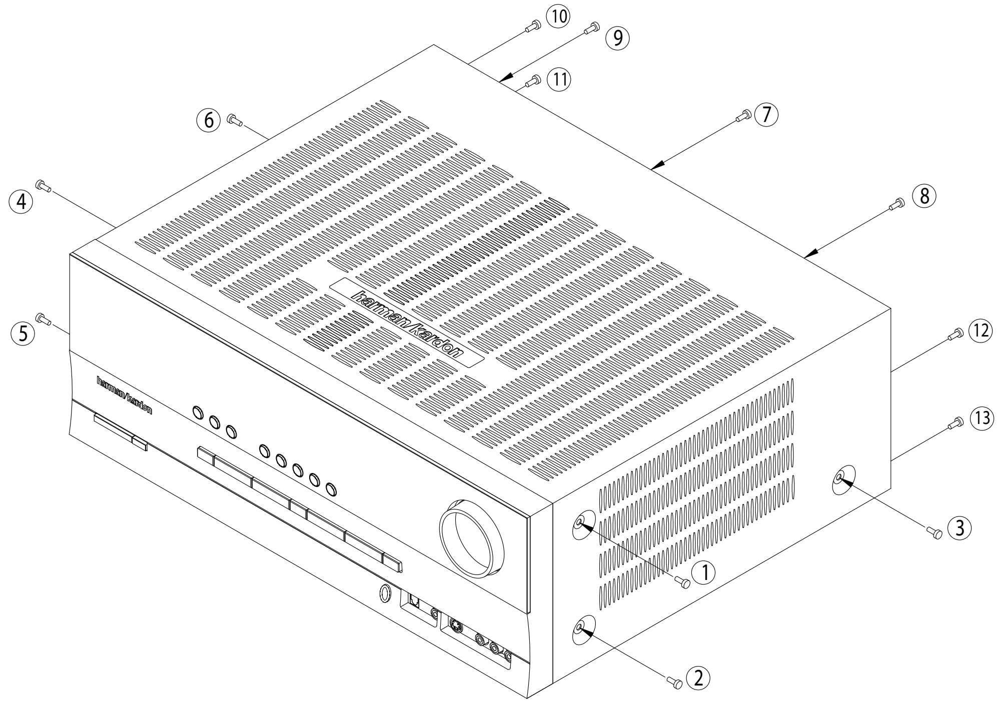
NO	DESCRIPTION	PARTS NO.	Q,ty
1	MANUAL ASS'Y	CQXAVR347	1
2	REMOCON ASS'Y	CARTAVR347	1
3	SNOW,PAD(L)	CPS6A564	1
4	SNOW,PAD(R)	CPS6A565	1
5	SET	AVR347SET	1
6	BOX,OUT CARTON	CPG1A822W	1
7	MICROPHONE ASS'Y	CJXAVR340MICRO	1

DISASSEMBLY

AVR347

1. Removing the Top Cabinet

Remove the Screws ①~⑬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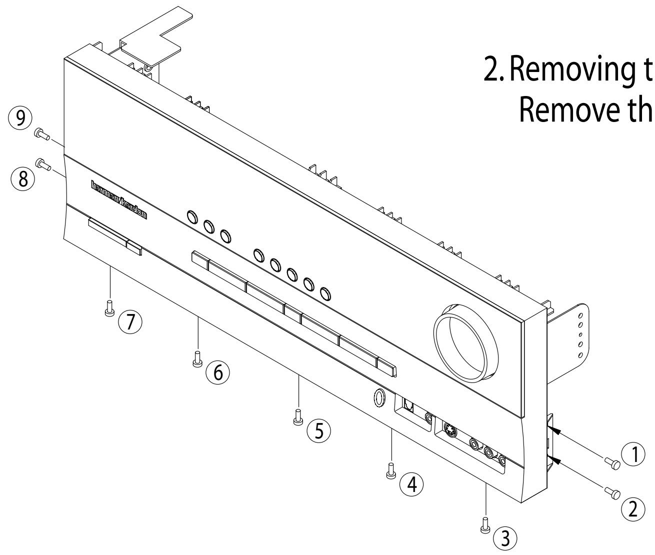
②

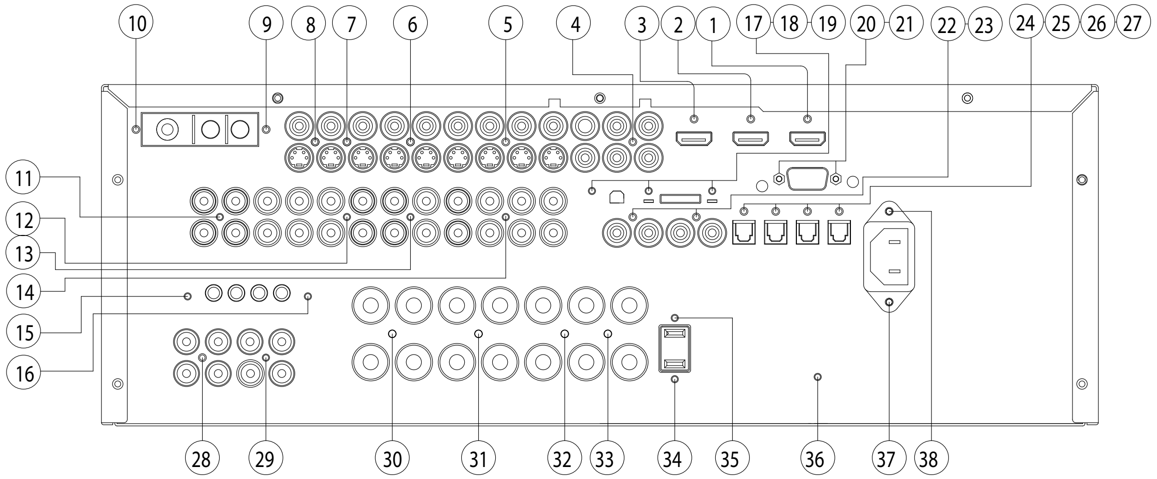
2. Removing the Front Panel

Remove the Screws ①~⑨



3. Removing the Rear Panel

Remove the Screws ①~㊳


⑩ ⑨ ⑧ ⑦ ⑥ ⑤ ④ ③ ② ① ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕ ㉖ ㉗
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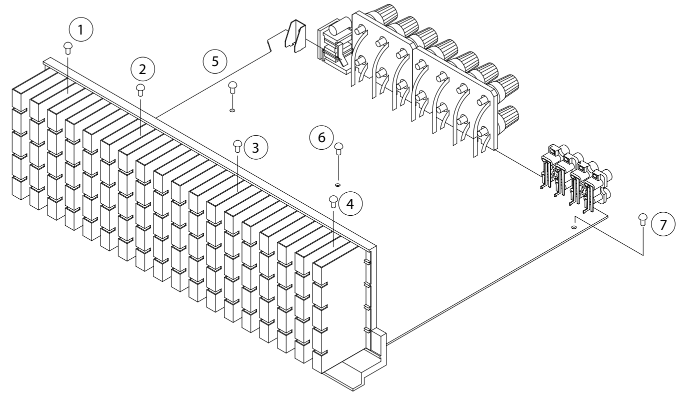
4. Removing the Main PCB

Remove the Screws ①~⑦



DISASSEMBLY PROCEDURE (AVR347)

<1> TOP-CABINET(21) REMOVAL

1. Remove 13 screws(S1,S7) and then remove the Top-cabinet.

<2> FRONT PANEL ASS’Y REMOVAL

1. Remove the Top-cabinet, referring to the previous step<1>.
2. Disconnect the card cable between connector(CN72-17p) on the Fip PCB(37-1) and connector(CN72) on the Input PCB(39-1).
3. Disconnect the lead wire(BN81-8P) on the Fip PCB(37-1) from connector(CN81) on the Trans PCB(40-4).
4. Disconnect the lead wire(BN22-6P) on the Phone PCB(37-5) from connector(CN22) on the Input PCB(39-1).
5. Disconnect the lead wire(BN18-5P) on the Phone PCB(37-5) from connector(CN18) on the Input PCB(39-1).
6. Disconnect the lead wire(BN10-4P) on the Volume PCB(37-6) from connector(CN10) on the Input PCB(39-1).
7. Disconnect the lead wire(BN41-6P) on the Volume PCB(37-6) from connector(CN41) on the Video PCB(41).
8. Disconnect the lead wire(BN90-2P) on the Main PCB(38-1) from connector(CN86) on the Moms PCB(37-4).
9. Remove 1 screw(S10) and then lead wire(JW82-1P,JW83-1P) on the Phone PCB(37-5).
10 .Remove 1screw(S10) and then lead wire(JW84-1P) on the Volume PCB(37-3).
11. Remove 10 screws(S1) and then remove the Front Panel ASS’Y.

<3> Volume PCB(37-6) REMOVAL

1. Remove the Top-cabinet, referring to the previous step<1>.
2. Remove the Front Panel ASS’Y, referring to the previous step<2>.
3. Pull out the Volume Knob ASS’Y.
4. Disconnect connector(CN84) on the Volume PCB(37-6) from the lead wire(BN84-5P) on the Fip PCB(37-1).
5. Disconnect the lead wire(BN92-5P)on the Volume PCB(37-6) from connector(CN92) on the Phone PCB(37-5).
6. Remove 8 screws(S2,S14), and then remove the Volume PCB(37-6).

<4>PHONE PCB(37-5) REMOVAL

1. Remove the Top-cabinet, referring to the previous step<1>.
2. Remove the Front Panel ASS’Y, referring to the previous step<2>.
3. Disconnect connector(CN92) on the Phone PCB(37-5) from the lead wire(BN92-5P) on the Volume PCB(37-6).
4.. Disconnect connector(CN85)on the Phone PCB(37-5) from the lead wire(BN85-3P) on the Fip PCB(37-1).
5. Remove 2 screws(S2) and then remove the Phone PCB(37-5).

<5>POWER LED PCB(37-3) REMOVAL

1. Remove the Top-cabinet, referring to the previous step<1>.
2. Remove the Front Panel ASS’Y, referring to the previous step<2>.
3. Disconnect connector(CN88) on the Power Led PCB(37-3) from the lead wire(BN88-4P) on the Fip PCB(37-1) .
4. Remove 2 screws(S2) and then remove the Power led PCB(37-3).

<6>FIP PCB(37-1) REMOVAL

1. Remove the Top-cabinet, referring to the previous step<1>.
2. Remove the Front Panel ASS’Y, referring to the previous step<2>.
3. Disconnect the lead wire(BN84-5P) on the Fip PCB(37-1) from connector(CN84) on the Volume PCB(37-6).
4. Disconnect the lead wire(BN85-3P) on the Fip PCB(37-1) from connector(CN85) on the Phone PCB(37-5).
5. Disconnect the lead wire(BN88-4P) on the Fip PCB(37-1) from connector(CN88) on the Power Led PCB(37-3).
6. Disconnect the connector (CN89) on the Fip PCB(37-1) from lead wire(BN89-4P) on the Key PCB(37-2).
7. Remove 3 screws(S2) and then remove the Guide PCB(37-8) & the Fip PCB(37-1).

<7>KEY PCB(37-2) REMOVAL

1. Remove the Top-cabinet, referring to the previous step<1>.
2. Remove the Front Panel ASS’Y, referring to the previous step<2>.

3. Remove the Fip PCB(37-1), referring to the previous step<6>.
4. Remove 10 screws(S2) and then remove the Key PCB(37-2).

<8>TUNER MODULE(43) REMOVAL

1. Remove the Top-cabinet, referring to the previous step<1>.
2. Disconnect the card cable between connector(CON1-13P) on the Tuner module(43)
   and connector(CN13) on the Input PCB(39-1).
3. Remove 2 screws(S8) and then remove the Tuner Module(43).

<9>HUDSON PCB(42) REMOVAL

1. Remove the Top-cabinet, referring to the previous step<1>.
2. Disconnect connector(CN80) on the HUDSON PCB(42) from the lead wire(BN80-3P) on the RS232 PCB(37-7).
3. Remove 3 screws(S15).
4. Disconnect the board to board connector between and connector(CN81-44P) on the HUDSON PCB(42)
   and connector(BN81-44P) on VIDEO PCB(41) and then remove the HUDSON PCB(42).

<10>VIDEO PCB(41) REMOVAL

1. Remove the Top-cabinet, referring to the previous step<1>.
2. Remove the Hudson PCB(42), referring to the previous step<9>.
3. Disconnect the card cable between connector(BN14-17p) on the Video PCB(41)
   and connector(CN14) on the Input PCB(39-1).
4. Disconnect connector(CN43) on the Video PCB(41)
   from the lead wire(BN43-3P) on the Regulator PCB(A)(40-2).
5. Disconnect connector(CN41) on the Video PCB(41) from the lead wire(BN41-6P) on the Volume PCB(37-6).
6. Disconnect the card cable between connector(CN42) on the Video PCB(41)
   and connector(BN44-11P) on the iPod PCB(39-2).
7. Disconnect the card cable between connector(BN15-15P) on the Video PCB(41)
   and connector(CN15-15P) on the INPUT PCB(39-1).
8. Remove 6 screws(S8) and then remove the Video PCB(41).

<11>iPod PCB(39-2) REMOVAL

1. Remove the Top-cabinet, referring to the previous step<1>.
2. Remove the Hudson PCB(42), referring to the previous step<9>.
3. Remove the Video PCB(41), referring to the previous step<10>
4. Disconnect the card cable between connector(BN19-15P) on the the iPod PCB(39-2)
   and connector(CN19) on the Input PCB(39-1).
5. Disconnect the card cable between connector(BN44-11P) on the iPod PCB(39-2)
   and connector(CN42) on the Video PCB(41).
6. Disconnect the card cable between connector(CN47-7P) on the iPod PCB(39-2)
   and connector(CN47) on the RS232 PCB(37-7).
7. Disconnect the board to board connector between and connector(CN23) on the XM PCB(39-4)
   and connector(BN17-12P) on the iPod PCB(39-2).
8. Remove 2 screws(S13) and then remove the iPod PCB(39-2).

<12>XM PCB(39-4) REMOVAL

1. Remove the Top-cabinet, referring to the previous step<1>.
2. Remove the Hudson PCB(42), referring to the previous step<9>.
3. Remove the Video PCB(41), referring to the previous step<10>
4. Disconnect the card cable between connector(BN21-7P) on XM PCB(39-4)
   and connector(CN21) on the input PCB(39-1).
5. Disconnect the lead wire(BN85-2P) on the XM PCB(39-4) from connector(CN85) on the Regulator PCB(A)(40-2).
6. Disconnect the board to board connector between and connector(CN23) on the XM PCB(39-4)
   and connector(BN17-12P) on the iPod PCB(39-2).
7. Remove 1 screws(S15) and then remove the XM PCB(39-4).

<13>RS232 PCB(37-7) REMOVAL

1. Remove the Top-cabinet, referring to the previous step<1>.
2. Remove the Hudson PCB(42), referring to the previous step<9>.
3. Remove the Video PCB(41), referring to the previous step<10>.
4. Disconnect the card cable between connector(CN47-7P) on the iPod PCB(39-2)
   and connector(CN47) on the RS232 PCB(37-7).
5. Remove 2 screws and then remove the RS232 PCB(37-7).

<14>INPUT PCB(39-1) REMOVAL

1. Remove the Top-cabinet, referring to the previous step<1>.
2. Remove the Tuner module(44), referring to the previous step<8>.
3. Remove the Hudson PCB(42), referring to the previous step<9>.
4. Remove the Video PCB(41), referring to the previous step<10>.
5. Disconnect connector(CN20) on the the Input PCB(39-1)
   from the lead wire(BN20-5P) on the Regulator PCB(B)(40-5).
6. Disconnect connector(CN22) on the Input PCB(39-1) from the lead wire(BN22-6P) on the Phone PCB(37-5).
7. Disconnect connector(CN18) on the Input PCB(39-1) from the lead wire(BN18-5P) on the Phone PCB(37-5)
8. Disconnect connector(CN10) on the Input PCB(39-1) from the lead wire(BN10-4P) on the Volume PCB(37-6).
9. Disconnect the card cable between connector(CN14) on the Input PCB(39-1).
   and connector(BN14-17P) on the Video PCB(41).
10. Disconnect the card cable between connector(CN19) on the Input PCB(39-1)
    and connector(BN19-15P) on the I-Pod PCB(39-2).
11. Disconnect the card cable between connector(CN21) on the input PCB(39-1)
    and connector(BN21-7P) on XM PCB(43).
12. Disconnect the card cable between connector(CN12-21p) on the Input PCB(39-1)
    and connector(CN12-21p)) on the main PCB(38-1)
13. Disconnect the card cable between connector(CN11-17p) on the Input PCB(39-1)
    and connector(CN11) on the main PCB(38-1)
14. Disconnect the card cable between connector(CN72) on the Input PCB(39-1)
    and connector(CN72-17p) on the Fip PCB(37-1)
15. Disconnect the card cable between connector(CN16-12P) on the Input PCB(39-1)
    and connector(BN16) on the A-BUS PCB(39-3)
16. Remove 11 screws(S8,S15) and then remove the Input PCB(39-1).

<15>POWER TRANS(36) & POWER PCB ASS’Y(40) REMOVAL

1. Remove the Top-cabinet, referring to the previous step<1>.
2. Disconnect lead wire of the Power Trans(36) from connector (CN91-3P) on the Main PCB(38-1)
3. Disconnect connector(CN19-3P,CN20-4P) on TRANS PCB(40-3)
   from the lead wire(BN19-3P,BN20-4P) on the Main PCB(38-1).
4. Disconnect the lead wire(BN96-8P) on the Power PCB(40-4)
   from connector(CN96) on the Regulator PCB(B)(40-5).
5. Disconnect the lead wire(BN99-8P) on the Power PCB(40-4)
   from connector(CN99) on the Regulator PCB(A)(40-2).
6. Disconnect connector(CN81) on the Trans PCB(40-4) from the lead wire(BN81-8P) on the Fip PCB(37-1).
7. Remove 4 Trans screws(S9) and then remove the Power Trans(36)& Power PCB ASS’Y(40) REMOVAL .

<16>REMOTE PCB ASS’Y(40-7) REMOVAL

1. Remove the Top-cabinet, referring to the previous step<1>.
2. Disconnect connector(CN88) on the remote PCB(40-7) from the lead wire(BN88-6P) on the Main PCB(38-1)
3. Remove 3screws(S13) and then remove the Remote PCB ASS’Y(40-7).

<17>A-BUS’Y(39-3) REMOVAL

1. Remove the Top-cabinet, referring to the previous step<1>.
2. Disconnect connector(CN90-2P) on the Regulator(C) PCB(39-6)

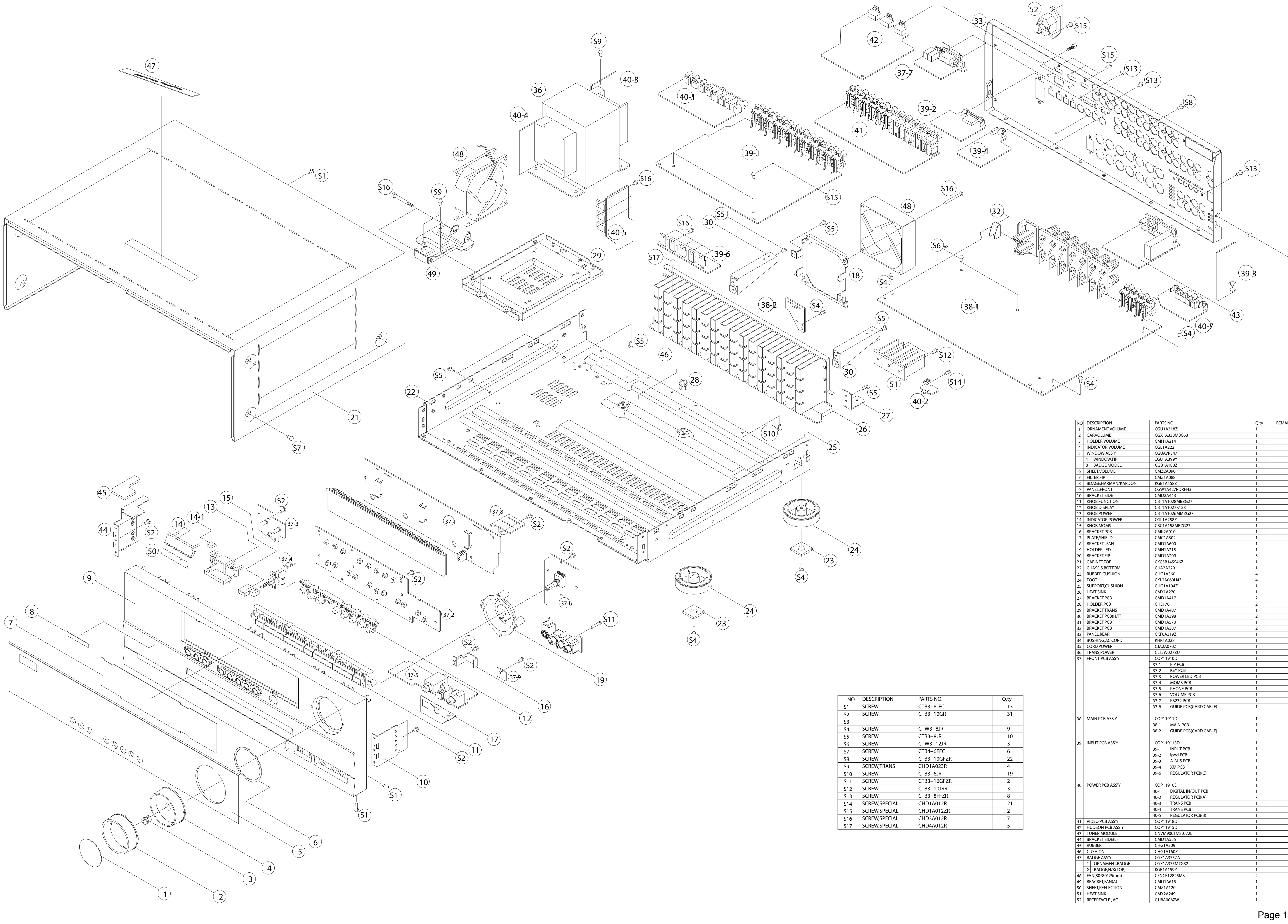
from the lead wire(BN90) on the A-BUS PCB(39-3).

3. Disconnect the card cable between connector(CN16-12P) on the Input PCB(39-1).
   and connector(BN16-12P) on the A-BUS PCB(39-3).
4. Remove 3screws(S13) and then remove the A-BUS PCB ASS'Y(39-3).

<18>MAIN PCB ASS'Y(38-1) REMOVAL

1. Remove the Top-cabinet, referring to the previous step<1>.
2. Remove the Tuner module(43), referring to the previous step<8>.
3. Remove the Hudson PCB(42), referring to the previous step<9>.
4. Remove the Video PCB(41), referring to the previous step<10>.
5. Remove the iPod PCB(39-2), referring to the previous step<11>.
6. Remove the XM PCB(39-4), referring to the previous step<12>.
7. Remove the RS232 PCB(37-7), referring to the previous step<13>.
8. Remove the Input PCB(39-1), referring to the previous step<14>.
9. Remove the A-BUS PCB(39-3), referring to the previous step<17>.
10. Remove the AC Cord wire from the connector (CN92-2P) of the Main PCB(38-1)
11. Disconnect the lead wire(BN90-2P) on the Main PCB(38-1) from connector(CN86) on Moms PCB(37-4).
12. Disconnect connector (CN91-3P) on the Main PCB(38-1) from lead wire of the Power Trans(36)
13. Disconnect the lead wire(BN89-2P) on the Main PCB(38-1)
    from connector(CN89) on Regulator PCB(C)(39-6).
14. Disconnect the lead wire(BN19-3P,BN20-4P) on the Main PCB(38-1)
    from connector(CN19-3P,CN20-4P) on TRANS PCB(40-4).
15. Disconnect the lead wire(BN88-6P) on the Main PCB(38-1) from connector(CN88) on remote PCB(40-7).
16. Disconnect the lead wire of the DC, FAN(49) from connector(CN89-2P) on the Main PCB(38-1).
17. Disconnect the lead wire(BN97-3P) on the Main PCB(38-1)
    from connector(CN97) on Regulator PCB(C)(39-6).
18. Remove 11screws(S13-1EA, S4-2EA, S6-2EA, S8-6EA) and then remove the Main PCB ASS'Y(38-1).

AVR347 EXPLODED VIEW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S1
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40-3
S9
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37-1
37-4
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37-6
37-2
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S11
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S2
37-5
37-9
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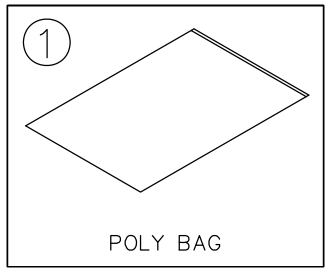
1

NO	DESCRIPTION	PARTS NO.	Q,ty
S1	SCREW	CTB3+8JFC	13
S2	SCREW	CTB3+10GR	31
S3			
S4	SCREW	CTW3+8JR	9
S5	SCREW	CTB3+8JR	10
S6	SCREW	CTW3+12JR	3
S7	SCREW	CTB4+6FFC	6
S8	SCREW	CTB3+10GFZR	22
S9	SCREW,TRANS	CHD1A023R	4
S10	SCREW	CTB3+6JR	19
S11	SCREW	CTB3+16GFZR	2
S12	SCREW	CTB3+10JRR	3
S13	SCREW	CTB3+8FFZR	8
S14	SCREW,SPECIAL	CHD1A012R	21
S15	SCREW,SPECIAL	CHD1A012ZR	2
S16	SCREW,SPECIAL	CHD3A012R	7
S17	SCREW,SPECIAL	CHD4A012R	5

NO	DESCRIPTION	PARTS NO.	Q,ty	REMARK
1	ORNAMENT,VOLUME	CGU1A318Z	1	
2	CAP,VOLUME	CGX1A338MBC63	1	
3	HOLDER,VOLUME	CMH1A214	1	
4	INDICATOR,VOLUME	CGL1A222	1	
5	WINDOW ASS'Y	CGUAVR347	1	
	1 WINDOW,FIP	CGU1A399Y	1	
	2 BADGE,MODEL	CGB1A180Z	1	
6	SHEET,VOLUME	CMZ2A090	1	
7	FILTER,FIP	CMZ1A088	1	
8	BDAGE,HARMAN/KARDON	KGB1A158Z	1	
9	PANEL,FRONT	CGW1A427RDRH43	1	
10	BRACKET,SIDE	CMD2A443	1	
11	KNOB,FUNCTION	CBT1A1028MBZG27	1	
12	KNOB,DISPLAY	CBT1A1027K128	1	
13	KNOB,POWER	CBT1A1026MMZG27	1	
14	INDICATOR,POWER	CGL1A258Z	1	
15	KNOB,MOMS	CBC1A158MBZG27	1	
16	BRACKET,PCB	CMK2A010	1	
17	PLATE,SHIELD	CMC1A302	1	
18	BRACKET , FAN	CMD1A600	1	
19	HOLDER,LED	CMH1A215	1	
20	BRACKET,FIP	CMD1A209	3	
21	CABINET,TOP	CKC5B145S46Z	1	
22	CHASSIS,BOTTOM	CUA2A229	1	
23	RUBBER,CUSHION	CHG1A360	4	
24	FOOT	CKL2A069H43	4	
25	SUPPORT,CUSHION	CHG1A104Z	1	
26	HEAT SINK	CMY1A270	1	
27	BRACKET,PCB	CMD1A417	2	
28	HOLDER,PCB	CHE170	2	
29	BRACKET,TRANS	CMD1A487	1	
30	BRACKET,PCB(H/T)	CMD1A398	2	
31	BRACKET,PCB	CMD1A570	1	
32	BRACKET,PCB	CMD1A387	2	
33	PANEL,REAR	CKF6A319Z	1	
34	BUSHING,AC CORD	KHR1A028	1	
35	CORD,POWER	CJA2A070Z	1	
36	TRANS,POWER	CLT5W027ZU	1	
37	FRONT PCB ASS'Y	COP11910D	1	
		37-1 FIP PCB	1	
		37-2 KEY PCB	1	
		37-3 POWER LED PCB	1	
		37-4 MOMS PCB	1	
		37-5 PHONE PCB	1	
		37-6 VOLUME PCB	1	
		37-7 RS232 PCB	1	
		37-8 GUIDE PCB(CARD CABLE)	1	
38	MAIN PCB ASS'Y	COP11911D	1	
		38-1 MAIN PCB	1	
		38-2 GUIDE PCB(CARD CABLE)	1	
39	INPUT PCB ASS'Y	COP119113D	1	
		39-1 INPUT PCB	1	
		39-2 ipod PCB	1	
		39-3 A-BUS PCB	1	
		39-4 XM PCB	1	
		39-6 REGULATOR PCB(C)	1	
			1	
40	POWER PCB ASS'Y	COP11916D	1	
		40-1 DIGITAL IN/OUT PCB	1	
		40-2 REGULATOR PCB(A)	7	
		40-3 TRANS PCB	1	
		40-4 TRANS PCB	1	
		40-5 REGULATOR PCB(B)	1	
41	VIDEO PCB ASS'Y	COP11918D	1	
42	HUDSON PCB ASS'Y	COP11915D	1	
43	TUNER MODULE	CNVM9001MS0J72L	1	
44	BRACKET,SIDE(L)	CMD1A555	1	
45	RUBBER	CHG1A309	1	
46	CUSHION	CHG1A160Z	1	
47	BADGE ASS'Y	CGX1A375ZA	1	
	1 ORNAMENT,BADGE	CGX1A375M7G32	1	
	2 BADGE,H/K(TOP)	KGB1A159Z	1	
48	FAN(80*80*25mm)	CFNCF12825MS	2	
49	BEACKET,FAN(A)	CMD1A615	1	
50	SHEET,REFLECTION	CMZ1A120	1	
51	HEAT SINK	CMY2A249	1	
52	RECEPTACLE , AC	CJJ8A006ZW	1	

1. Instruction manual ass'y – Accessories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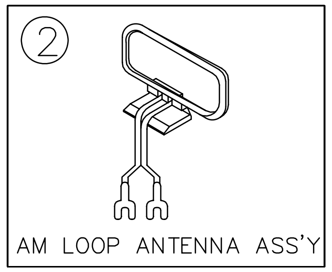
POLY BAG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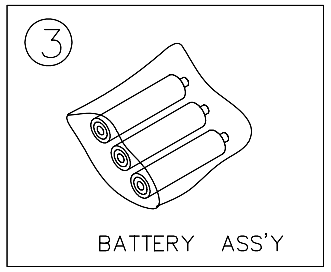
AM LOOP ANTENNA ASS'Y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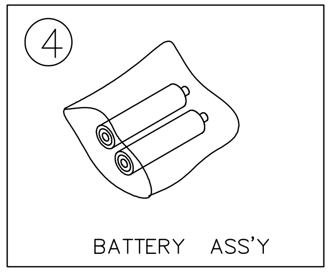
BATTERY ASS'Y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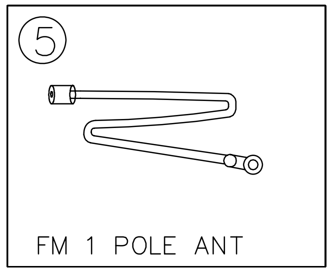
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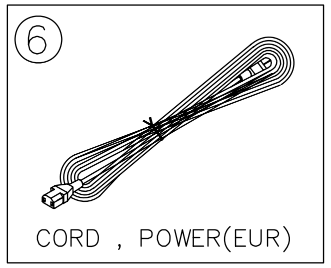
FM 1 POLE ANT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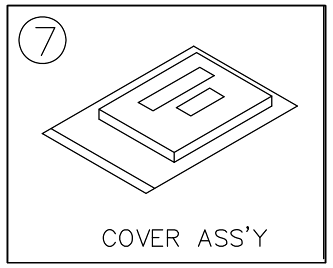
CORD , POWER(EUR)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COVER ASS'Y

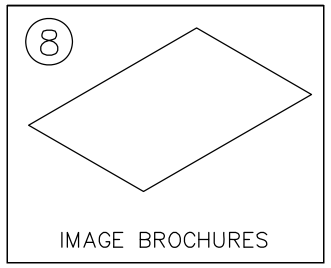
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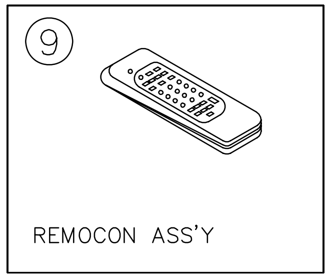
IMAGE BROCHURES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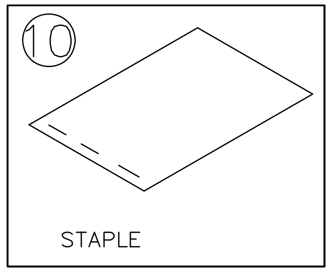
REMOCON ASS'Y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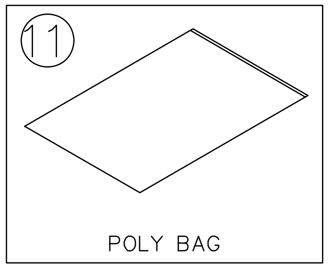
STAPLE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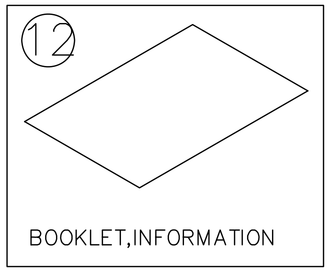
POLY BAG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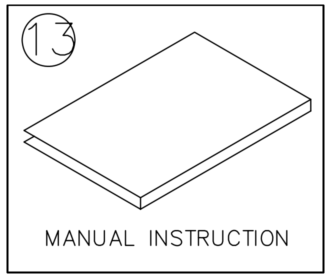
BOOKLET,INFORMATION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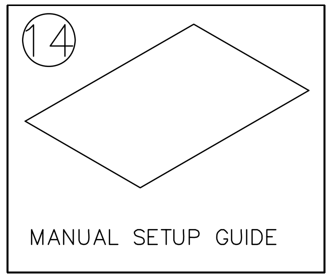
MANUAL INSTRUCTION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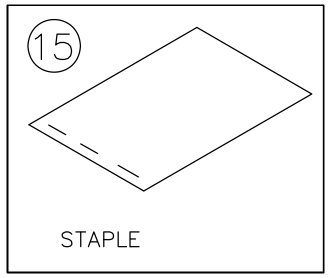
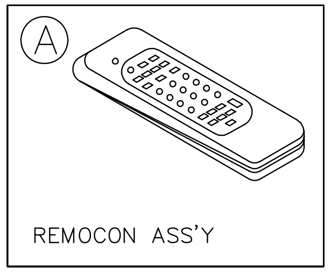
MANUAL SETUP GUIDE


⑮
STAPLE

ACCESSORY–1

NO		DESCRIPTION	PARTS NO.	Q,ty
1		POLY BAG	CPB1061W	1
2		AM LOOP ANTENNA ASS'Y	CSA1A027Z	1
3		BATTERY	CABR03P3	3
4		BATTERY	CABR03P	2
5		FM 1 POL ANT	CSA1A018Z	1
6		CORD , POWER(EUR)	CJA2B054Z	1
7		COVER ASS'Y	CGRAVR350/230ZA	1
	1	COVER A	CGR1A436	1
	2	COVER B	CGR1A437	1
	3	ORNAMENT , AL A	CGX1A391C66	1
	4	ORNAMENT , AL B	CGX1A392C66	1
	5	SHEET,FRONT COVER	CQE1A220Z	1
	6	PAD , COVER	CPS1A676	1
	7	BAG , POLY	CPB1A176Z	1
8		IMAGE BROCHURES	HQE1A273Z	1
9		REMOCON ASS'Y	HARTZONE2G	1
10		STAPLE	CPL0905	3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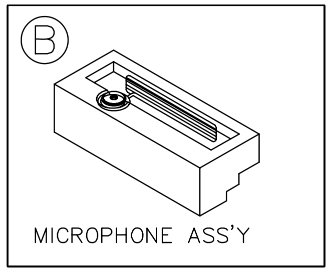
REMOCON ASS'Y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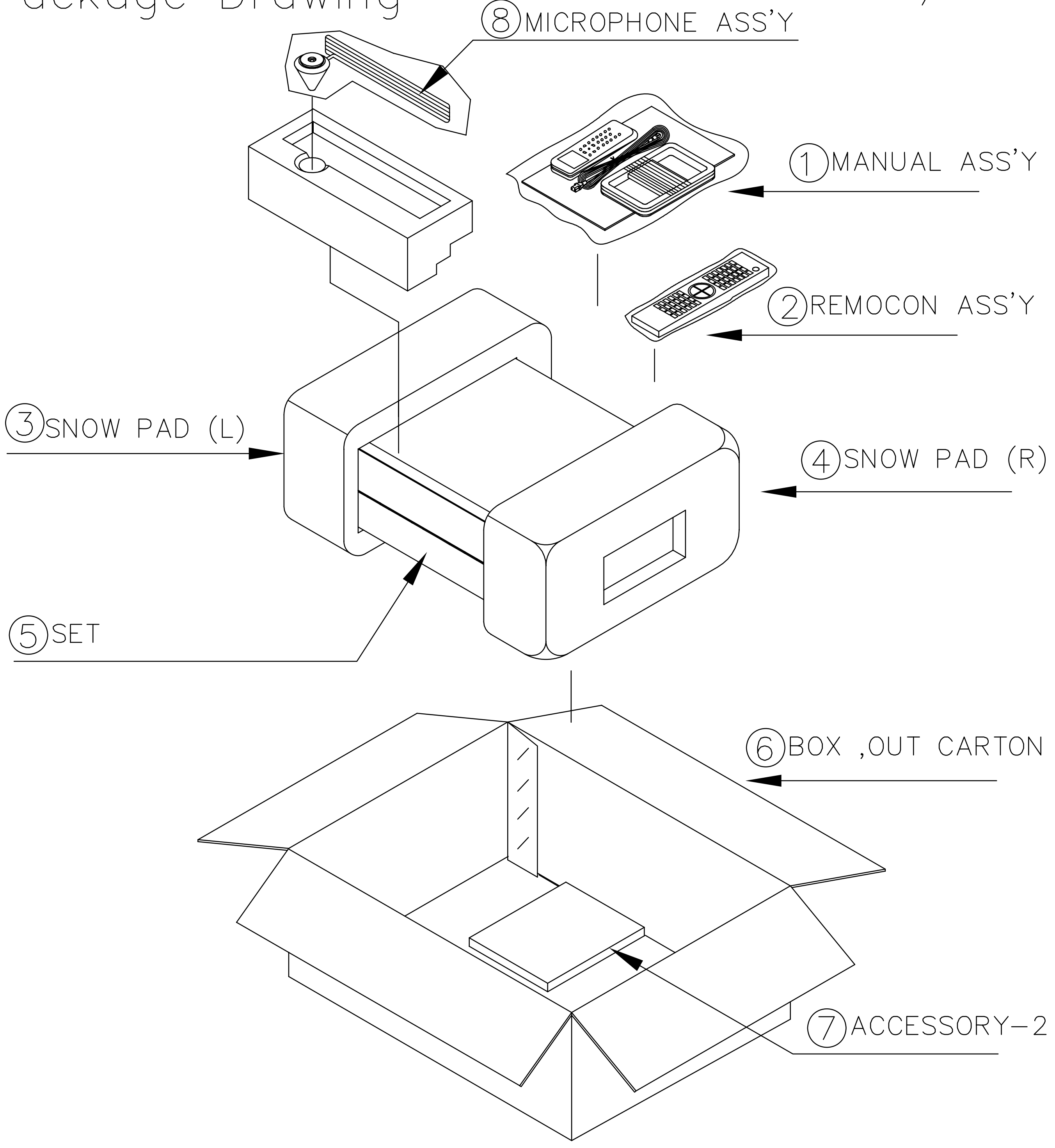
MICROPHONE ASS'Y

ACCESSORY–2

NO	DESCRIPTION	PARTS NO.	Q,ty
11	POLY BAG	CPB1061W	1
12	BOOKLET,INFORMATION	CQE1A180Z	1
13	MANUAL,INSTRUCTION	CQX1A1283Y	1
14	MANUAL ,SETUP GUIDE	CQX1A1285Z	1
15	STAPLE	CPL0905	3
A	REMOCON ASS'Y	CARTAVR350/230	1
B	MICROPHONE ASS'Y	CJXAVR340MICRO	1

2. Package Drawing

AVR350/230



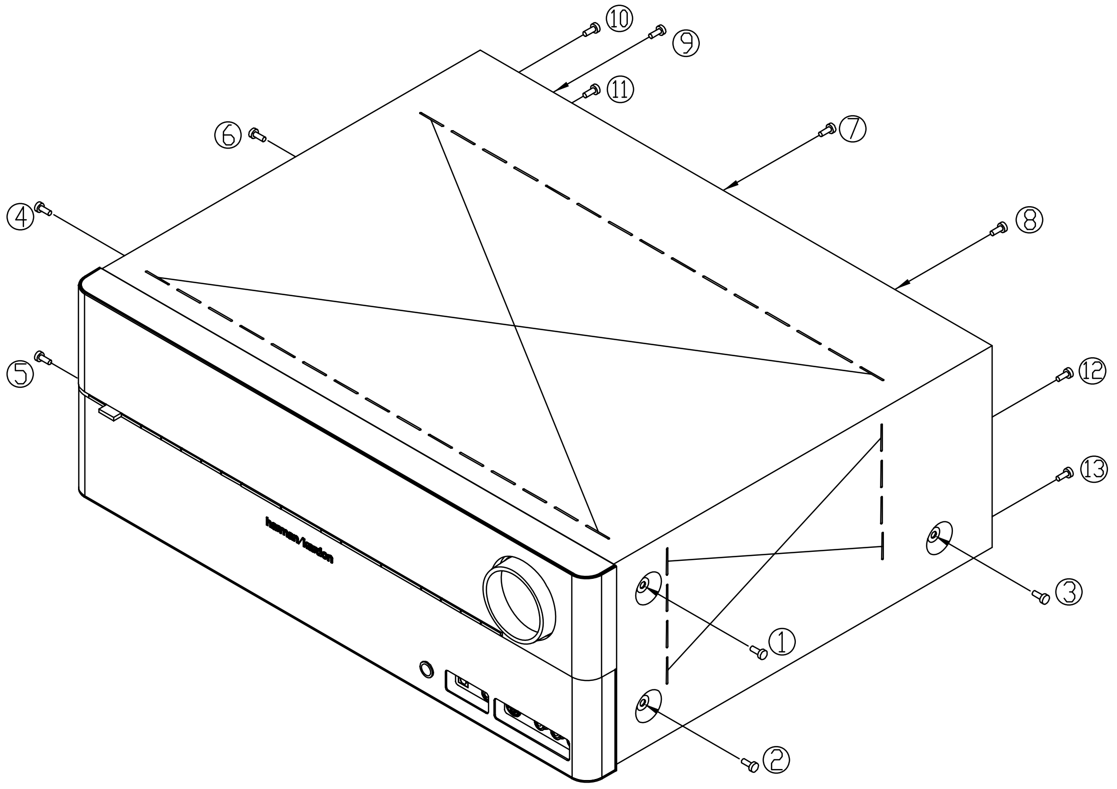
NO	DESCRIPTION	PARTS NO.	Q,ty
1	ACCESSORY–1	CQXAVR350/230	1
2	REMOCON ASS'Y	CARTAVR350/230	1
3	SNOW,PAD(L)	CPS6A564	1
4	SNOW,PAD(R)	CPS6A565	1
5	SET	AVR350/230SET	1
6	BOX,OUT CARTON	CPG1A840X	1
7	ACCESSORY–2	CQXAVR350/230	1
8	MICROPHONE ASS'Y	CJXAVR340MICRO	1

DISASSEMBLY

AVR350/230

1. Removing the Top Cabinet

Remove the Screws ①~⑬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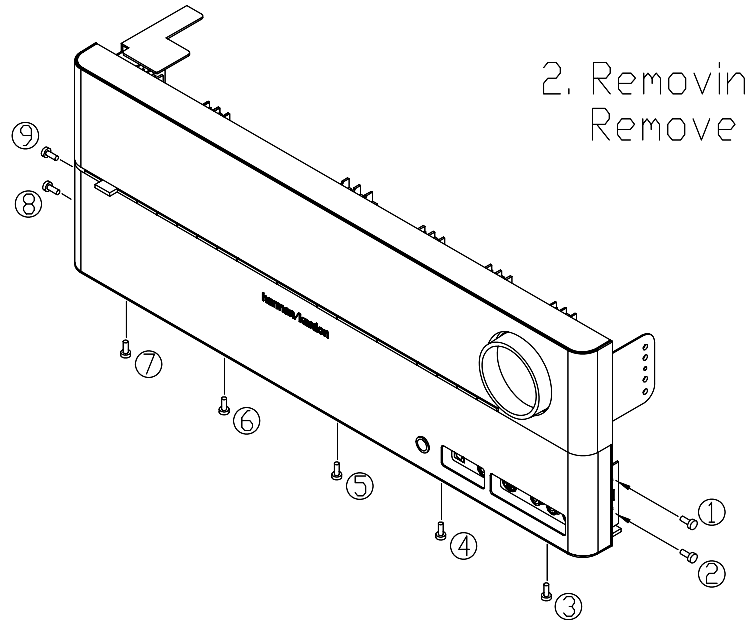
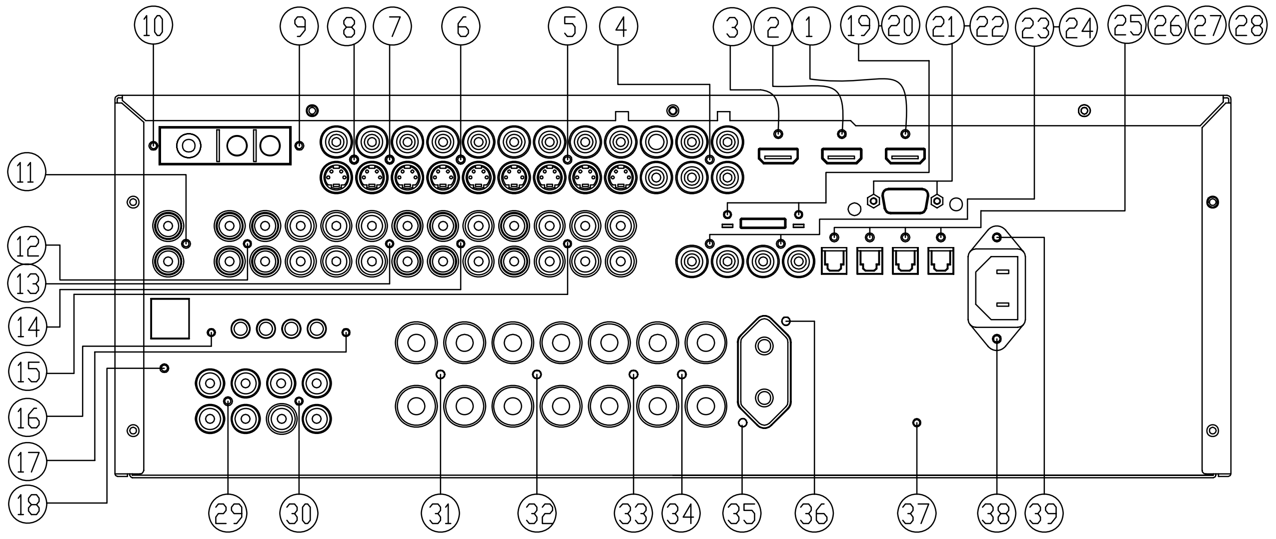
2. Removing the Front Panel

Remove the Screws ①~⑨



3. Removing the Rear Panel

Remove the Screws ①~㊴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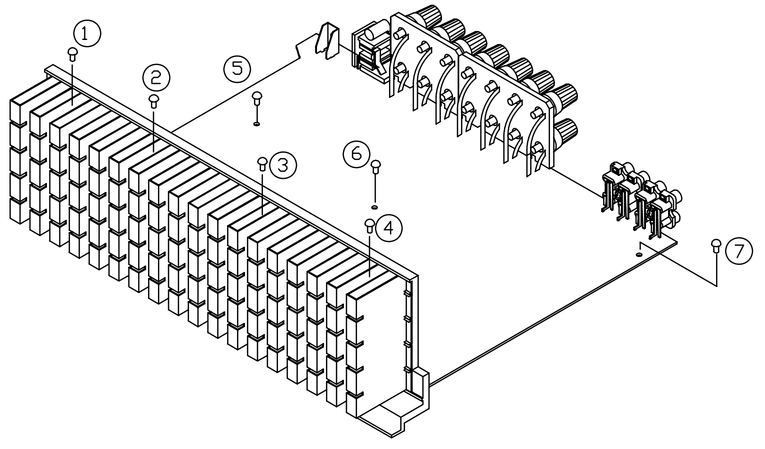
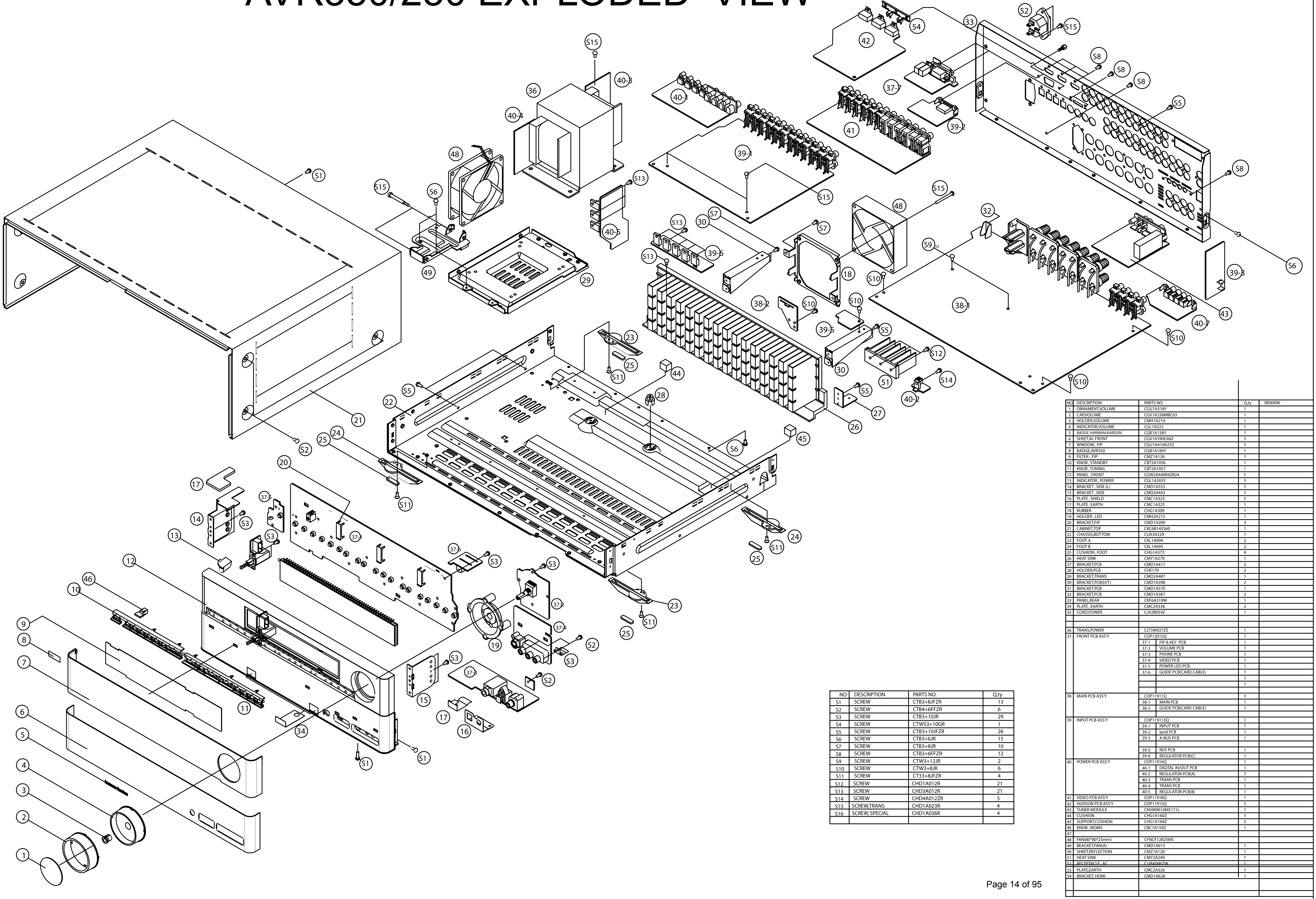
4. Removing the Main PCB

Remove the Screws ①~⑦



AVR350/230 EXPLODED VIEW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S6
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40-5
39-6
S13
S6
S9
39-3
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S10
38-2
S10
S10
38-1
39-5
S5
40-7
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S12
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S14
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40-2
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37-5
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37-1
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S11
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37-5
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S3
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37-2
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37-4
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S11
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S3
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37-3
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S1
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1

NO	DESCRIPTION	PARTS NO.	Q,ty
S1	SCREW	CTB3+8JFZR	13
S2	SCREW	CTB4+6FFZR	6
S3	SCREW	CTB3+10JR	29
S4	SCREW	CTWS3+10GR	1
S5	SCREW	CTB3+10JFZR	26
S6	SCREW	CTB3+6JR	15
S7	SCREW	CTB3+8JR	10
S8	SCREW	CTB3+6FFZR	12
S9	SCREW	CTW3+12JR	2
S10	SCREW	CTW3+8JR	6
S11	SCREW	CT33+8JFZR	4
S12	SCREW	CHD1A012R	21
S13	SCREW	CHD3A012R	21
S14	SCREW	CHD4A012ZR	5
S15	SCREW,TRANS	CHD1A023R	4
S16	SCREW, SPECIAL	CHD1A036R	4

NO	DESCRIPTION	PARTS NO.		Q,ty	REMARK
1	ORNAMENT,VOLUME	CGU1A318Y		1	
2	CAP,VOLUME	CGX1A338MBC63		1	
3	HOLDER,VOLUME	CMH1A214		1	
4	INDICATOR,VOLUME	CGL1A222		1	
5	BADGE, HARMAN/KARDON	CGB1A158Y		1	
6	SHEET,AL FRONT	CGX1A390C66Z		1	
7	WINDOW , FIP	CGU1A410A25Z		1	
8	BADGE,AVR350	CGB1A184Y		1	
9	FILTER , FIP	CMZ1A126		1	
10	KNOB , STANDBY	CBT2A1056		1	
11	KNOB , TUNING	CBT2A1057		1	
12	PANEL , FRONT	CGW2A440R4ZB24		1	
13	INDICATOR , POWER	CGL1A265Y		1	
14	BRACKET , SIDE (L)	CMD1A555		1	
15	BRACKET , SIDE	CMD2A443		1	
16	PLATE , SHIELD	CMC1A323		1	
17	PLATE , EARTH	CMC1A325		1	
18	RUBBER	CHG1A309		1	
19	HOLDER , LED	CMH2A215		1	
20	BRACKET,FIP	CMD1A209		3	
21	CABINET,TOP	CKC6B145S60		1	
22	CHASSIS,BOTTOM	CUA3A229		1	
23	FOOT A	CKL1A094		2	
24	FOOT B	CKL1A095		2	
25	CUSHION , FOOT	CHG1A373		4	
26	HEAT SINK	CMY1A270		1	
27	BRACKET,PCB	CMD1A417		2	
28	HOLDER,PCB	CHE170		2	
29	BRACKET,TRANS	CMD2A487		1	
30	BRACKET,PCB(H/T)	CMD1A398		2	
31	BRACKET,PCB	CMD1A570		1	
32	BRACKET,PCB	CMD1A387		2	
33	PANEL,REAR	CKF6A319W		1	
34	PLATE , EARTH	CMC2A338		2	
35	CORD,POWER	CJA2B054Z		1	
36	TRANS,POWER	CLT5W027ZE		1	
37	FRONT PCB ASS'Y	COP12015Q		1	
		37-1	FIP & KEY PCB	1	
		37-2	VOLUME PCB	1	
		37-3	PHONE PCB	1	
		37-4	VIDEO PCB	1	
		37-5	POWER LED PCB	1	
		37-6	GUIDE PCB(CARD CABLE)	1	
				1	
				1	
38	MAIN PCB ASS'Y	COP11911Q		1	
		38-1	MAIN PCB	1	
		38-2	GUIDE PCB(CARD CABLE)	1	
39	INPUT PCB ASS'Y	COP119113Q		1	
		39-1	INPUT PCB	1	
		39-2	ipod PCB	1	
		39-3	A-BUS PCB	1	
		39-5	RDS PCB	1	
		39-6	REGULATOR PCB(C)	1	
40	POWER PCB ASS'Y	COP11916Q		1	
		40-1	DIGITAL IN/OUT PCB	1	
		40-2	REGULATOR PCB(A)	7	
		40-3	TRANS PCB	1	
		40-4	TRANS PCB	1	
		40-5	REGULATOR PCB(B)	1	
41	VIDEO PCB ASS'Y	COP11918Q		1	
42	HUDSON PCB ASS'Y	COP11915Q		1	
43	TUNER MODULE	CNVM9014MS171L		1	
44	CUSHION	CHG1A160Z		1	
45	SUPPORT,CUSHION	CHG1A104Z		2	
46	KNOB , MOMS	CBC1A159Z		1	
47					
48	FAN(80*80*25mm)	CFNCF12825MS			
49	BEACKET,FAN(A)	CMD1A615		1	
50	SHEET,REFLECTION	CMZ1A120		1	
51	HEAT SINK	CMY2A249		1	
52	RECEPTACLE , AC	CJJ8A006ZW		1	
53	PLATE,EARTH	CMC2A326		1	
54	BRACKET, HDMI	CMD1A628		1	

AVR 347/230 and AVR 350/230 Electrical Parts List

Ref. #	Part Number	Description	Value
	CARTAVR347/230	REMOCON TRANSMITTER ASS'Y	ASS'Y
	CGL1A222	INDICATOR , VOLUME	INDICATOR
	CGUAVR345	WINDOW ASS'Y	ASS'Y
	CGB1A170Z	BADGE , AVR	BADGE
	CGU1A399Y	WINDOW , FIP	FIP WINDOW
	CGU1A318Z	ORNAMENT , VOLUME	ORNAMET
	CGX1A338MBC63	CAP , VOLUME	CAP
	CGX1A375ZA	BADGE ASS'Y	ASS'Y
	CGX1A375M7G32	ORNAMENT , BADGE	ORNAMET
	KGB1A159Z	BADGE , HARMAN/KARDON(TOP)	BADGE
	CKC5B145S46Z	CABINET , TOP	TOP CABINET
	BKC5C145S46	CABINET , TOP	TOP CABINET
	CLZ9Z028Z	FERRITE CORE(21.2X6.4X12.7)	FERRITE CORE
	CMH1A214	HOLDER , VOLUME	HOLDER
	CMZ2A090	SHEET,VOLUME	SHEET
	CQB1A549Z	LABEL , ATTENTION	LABEL
	CQB1A551Z	LABEL , BAR CODE	LABEL
	CQB1A622	LABEL , SERIAL NO	LABEL
	CTB3+8JFC	SCREW	SCREW
	CTB4+6FFC	SCREW	SCREW
	CHE154	CLAMPER , ARM	CLAMPER
	CJXAVR340MICRO	MICROPHONE ASS'Y	ASS'Y
	CPG1A820U	BOX , OUT CARTON	BOX
	CPS6A564	PAD , SNOW L	SNOW PAD
	CPS6A565	PAD , SNOW R	SNOW PAD
	CQB1A551Z	LABEL , BAR CODE	LABEL
	CQB1A795Z	LABEL , COUNTRY	LABEL
	CQB1A797Z	LABEL , HDMI	LABEL
	CQS1A001	RIBBON , BAR CODE	SONY(TR-4070)
	CQXAVR345/230	INSTRUCTION MANUAL ASS'Y	ASS'Y
	CARTAVR345/230	REMOCON ASS'Y	ASS'Y
	CGRAVR130/230ZA	COVER ASS'Y	ASS'Y
	CGR1A331M7H43	COVER A	COVER
	CGR1A332M7H43	COVER B	COVER
	CPS1A676	PAD , COVER	PAD
	CQE1A220Z	SHEET , FRONT COVER	SHEET
	CJA2B054Z	CORD , POWER(DETACHABLE/EUR)	POWER CORD
	CPL0905	STAPLE	STAPLE
	CQE1A180Z	BOOKLET , IMFORMATIONS	BOOKLET
	CQX1A1137Z	MANUAL , INSTRUCTION	MANUAL
	CQX1A1138X	MANUAL , SETUP	SETOP MANUAL
	CSA1A018Z	FM 1 POLE ANT	ANT
	CSA1A027Z	AM LOOP ANT	ANT
	HARTZONE2G	REMOCON ASS'Y(ZONE2)	ASS'Y
	HQE1A273Z	HARMAN IMAGE BROCHURES	BROCHURES

FRONT PANEL ASSY

Ref. #	Part Number	Description	Value
	CGWAVR347/230	FRONT PANEL ASS'Y	ASS'Y
	CBC1A158MBZG27	KNOB , MOMS	KNOB
	CBT1A1026MMZG27	KNOB , POWER	KNOB
	CBT1A1027K128	KNOB , DISPLAY	KNOB
	CBT1A1028MBYG27	KNOB , FUNCTION	KNOB
	CGL1A258Z	INDICATOR , POWER	INDICATOR
	CGW1A427RDMH43	PANEL , FRONT AVR347/230	PANEL
	CHG1A309	RUBBER	RUBBER
	CHR301	CLAMPER	CLAMPER
	CMC1A302	PLATE , SHIELD	PLATE
	CMD1A555	BRACKET , SIDE (L)	BRACKET
	CMD2A443	BRACKET , SIDE	BRACKET
	CMH1A215	HOLDER , LED	HOLDER
	CMK2A010	BRACKET , PCB	BRACKET
	CMZ1A088	FILTER , FIP	FIP FILTER
	CMZ1A120	SHEET , REFLECTION	SHEET
	CTB3+10GR	SCREW	SCREW
	CTB3+16GFZR	SCREW	SCREW
	KGB1A158Z	BADGE , HARMAN/KARDON(FRONT)	BADGE
CB72	CWCAVR350CN72	SHIELD CARD CABLE ASS'Y	17PIN, 230MM, 1MM

BOTTOM CHASSIS ASS'Y

Ref. #	Part Number	Description	Value
	CUAAVR347/230	BOTTOM CHASSIS ASS'Y	ASS'Y
	CHD1A012ZR	SCREW , SPECIAL	SCREW
	CHD1A023R	SCREW , SPECIAL	SCREW
	CHD4A012R	SCREW , SPECIAL	SCREW
	CHE170	HOLDER , PCB	HOLDER
	CHE36-3	CLAMPER , WIRE	CLAMPER
	CHG1A104Z	CUSHUON , RUBBER	CUSHION
	CHG1A160Z	CUSHION , RUBBER	CUSHION
	CHG1A360	CUSHION , FOOT	CUSHION
	CHS1A032	TAPE , HEMELON	TAPE
	CKF6A319X	PANEL , REAR AVR347/230	REAR PANEL
	CKL2A069H43	FOOT	FOOT
	CMD2A487	BRACKET , TRANS	BRACKET
	CNVM9014MS171L	MODULE , TUNER(EUR)	MODULE
	CQB1A173Y	LABEL, FUSE CAUTION	LABEL
	CTB3+10GFZR	SCREW	SCREW
	CTB3+6FFZR	SCREW	SCREW
	CTB3+6JR	SCREW	SCREW
	CTB3+8JR	SCREW	SCREW
	CTW3+12JR	SCREW	SCREW

BOTTOM CHASSIS ASS'Y

Ref. #	Part Number	Description	Value
	CTW3+8JR	SCREW	SCREW
	CUA3A229	CHASSIS , BOTTOM	CHASSIS
BN92	CWZSR4001BN91A	WIRE ASS'Y	ASS'Y
	CLZ9W003Z	FERRITE , RING	29X7.7X19
CB11	CWC1B2A17A100B	CABLE , CARD (1MM) 17PIN	CARD CABLE
CB12	CWC1C4A21B110B	CABLE , CARD	CARD CABLE
CB13	CWC1C4A13B080B	CABLE , CARD	CARD CABLE
CB14	CWC6F2A17A120B	CABLE , CARD(17PIN, 120MM)	17PIN, 120MM, 1 MM
CB15	CWCAVR347BN15	CARD CABLE COPPER SHIELD	15PIN, COPPER SHIE
CB16	CWC1C4A12B100B	WAFER, CARD CABLE (1.25mm)	CARD CABLE
CB19	CWC1B2A09A240B	CABLE , CARD	CARD CABLE
CB42	CWC1B2A07A120B	CABLE, CARD (1mm PITCH)	CARD CABLE
CB47	CWC1B2A07A060B	CABLE , CARD	CARD CABLE
F901	KBA2C6300TLEZ	FUSE(233TYPE, 6.3A,250V)	LITTEL FUSE
RC91	CJJ8A006ZW	RECEPTACLE , AC(15A/250V,R-301)	R-301(B21)
T901	CLT5W027ZE	TRANS , POWER MAIN	TRANS

FRONT PCB ASSY

Ref. #	Part Number	Description	Value
	CUP11910X	PCB , FRONT	PCB , FRONT
C402	CCEA1HH100T	CAP , ELECT	10UF 50V
C403	CCEA1HH100T	CAP , ELECT	10UF 50V
C714	HCBS1H151KBT	CAP , CERAMIC	150UF 50V K
C716	CCEA1AH331T	CAP , ELECT	330UF 10V
C719	HCBS1H102KBT	CAP , CERAMIC	1000PF 50V K
C720	HCBS1H102KBT	CAP , CERAMIC	1000PF 50V K
C721	HCBS1H102KBT	CAP , CERAMIC	1000PF 50V K
C723	HCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z
C728	HCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z
C729	HCBS1H473ZFT	CAP , CERAMIC	0.047UF 50V Z
C731	CCEA1HH100T	CAP , ELECT	10UF 50V
C735	CCEA1CKS100T	CAP , ELECT	10UF 16V
C742	HCBS1H223ZFT	CAP , CERAMIC	0.02UF 50V Z
C793	HCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z
C794	HCBS1C222MXT	CAP , CERAMIC	2200PF 16V
C795	HCBS1H102KBT	CAP , CERAMIC	1000PF 50V K
C796	HCBS1H102KBT	CAP , CERAMIC	1000PF 50V K
C805	HCBS1H223ZFT	CAP , CERAMIC	0.022UF 50V Z
C806	HCBS1H223ZFT	CAP , CERAMIC	0.022UF 50V Z
C807	HCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z
C808	HCBS1H181KBT	CAP , CERAMIC	180PF 50V
C809	CCEA1AH471T	CAP , ELECT	470UF 10V
C812	HCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z
C817	HCBS1H100JCT	CAP , CERAMIC	10PF 50V

FRONT PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
C820	CCEA1HH100T	CAP , ELECT	10UF 50V
C821	CCEA1EH470T	CAP , ELECT	47UF 25V
C822	CCEA1EH470T	CAP , ELECT	47UF 25V
C823	CCEA1HH100T	CAP , ELECT	10UF 50V
C824	HCBS1H471KBT	CAP , CERAMIC	470PF 50V
C825	HCBS1H151KBT	CAP , CERAMIC	150PF 50V
C828	HCBS1H470JT	CAP , CERAMIC	47PF 50V
C830	HCBS1H473ZFT	CAP , CERAMIC	0.047F 50V
C841	CCEA1HH100T	CAP , ELECT	10UF 50V
C842	CCEA1HH100T	CAP , ELECT	10UF 50V
C843	CCEA1HH100T	CAP , ELECT	10UF 50V
C850	HCBS1H471KBT	CAP , CERAMIC	470PF 50V
C851	HCBS1H471KBT	CAP , CERAMIC	470PF 50V
C852	HCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z
C855	HCBS1H101KBT	CAP , CERAMIC	100PF 50V K
C856	HCBS1H101KBT	CAP , CERAMIC	100PF 50V K
C857	HCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z
C862	HCBS1H101KBT	CAP , CERAMIC	100PF 50V K
C863	HCBS1H101KBT	CAP , CERAMIC	100PF 50V K
C866	CCEA1HKS100T	CAP , ELECT	10UF 50V
C867	CCEA1HKS100T	CAP , ELECT	10UF 50V
C868	CCEA1EKS470T	CAP , ELECT	47UF 25V
C869	CCEA1EKS470T	CAP , ELECT	47UF 25V
C870	HCBS1H681KBT	CAP , CERAMIC	680PF 50V K
C871	HCBS1H681KBT	CAP , CERAMIC	680PF 50V K
C872	CCEA1CH331T	CAP , ELECT	330UF 16V
C873	CCEA1CH331T	CAP , ELECT	330UF 16V
C874	HCBS1H101KBT	CAP , CERAMIC	100PF 50V K
C882	HCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z
C889	HCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z
C891	HCBS1H223ZFT	CAP , CERAMIC	0.023UF 50V Z
C892	HCBS1H223ZFT	CAP , CERAMIC	0.023UF 50V Z
C893	HCBS1H223ZFT	CAP , CERAMIC	0.023UF 50V Z
C894	CCEA1CKS100T	CAP , ELECT	10UF 16V
C896	HCBS1H223ZFT	CAP , CERAMIC	0.023UF 50V Z
C897	CCEA1AH471T	CAP , ELECT	470UF 10V
C901	HCBS1H390JT	CAP , CERAMIC	39PF 50V Z
C903	CCEA1HKS2R2T	CAP , ELECT	2.2UF 50V
C905	CCEA1HKS2R2T	CAP , ELECT	2.2UF 50V
C953	HCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z
C954	HCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z
C957	HCBS1H104ZFT	CAP , CERAMIC	0.1UF 50V Z
D455	CVD1SS133MT	DIODE	1SS133
D730	CVD1SS133MT	DIODE	1SS133

FRONT PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
D774	CVD1SS133MT	DIODE	1SS133
D778	HVD1N5819T	DIODE , SCHOTTKY	1N5819
D784	CVD1SS133MT	DIODE	1SS133
D785	CVD1SS133MT	DIODE	1SS133
J906	CRD20TJ391T	RES , CARBON	390OHM 1/5W
L702	HLQ02C100KT	COIL , AXAIL	10uH
Q401	HVTKRC104MT	T.R	KRC104M
Q451	HVTKRC107MT	T.R	KRC107M
Q452	HVTKRA107MT	T.R	KRA107M
Q454	HVTKRC107MT	T.R	KRC107M
Q701	HVTKRC107MT	T.R	KRC107M
Q722	HVTKRA107MT	T.R	KRA107M
Q724	HVTKRC107MT	T.R	KRC107M
Q725	HVTKRC107MT	T.R	KRC107M
Q734	HVTKTC2874BT	T.R , MUTE	KTC2874B
Q735	HVTKTC2874BT	T.R , MUTE	KTC2874B
Q736	HVTKTC2874BT	T.R , MUTE	KTC2874B
Q737	HVTKTC2874BT	T.R , MUTE	KTC2874B
Q738	HVTKRC107MT	T.R	KRC107M
Q739	HVTKTA1271YT	T.R	KTA1271Y
R402	CRD20TJ101T	RES , CARBON	100 OHM 1/5W J
R403	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J
R404	CRD20TJ101T	RES , CARBON	100 OHM 1/5W J
R452	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J
R453	CRD20TJ362T	RES , CARBON	3.6K OHM 1/5W J
R454	CRD20TJ102T	RES , CARBON	1K OHM 1/5W J
R701	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J
R704	CRD20TJ100T	RES , CARBON	10 OHM 1/5W J
R705	CRD20TJ820T	RES , CARBON	82 OHM 1/5W J
R706	CRD20TJ820T	RES , CARBON	82 OHM 1/5W J
R708	CRD20TJ820T	RES , CARBON	82 OHM 1/5W J
R709	CRD20TJ470T	RES , CARBON	47 OHM 1/5W J
R710	CRD20TJ470T	RES , CARBON	47 OHM 1/5W J
R711	CRD20TJ470T	RES , CARBON	47 OHM 1/5W J
R718	CRD20TJ222T	RES , CARBON	2.2K OHM 1/5W J
R737	CRD20TJ100T	RES , CARBON	10 OHM 1/5W J
R747	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J
R753	CRD20TF1001T	RES , CARBON	1K /1/5W /F
R754	CRD20TF1501T	RES , CARBON	1.5K /1/5W /F
R755	CRD20TF1801T	RES , CARBON	1.8K /1/5W /F
R756	CRD20TF2701T	RES , CARBON	2.7K /1/5W/F
R757	CRD20TF3301T	RES , CARBON	3.3K /1/5W/F
R758	CRD20TF5601T	RES , CARBON	5.6K 1/5W F
R759	CRD20TF1001T	RES , CARBON	1K /1/5W /F

FRONT PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
R760	CRD20TF1501T	RES , CARBON	1.5K /1/5W /F
R761	CRD20TF1801T	RES , CARBON	1.8K /1/5W /F
R762	CRD20TF2701T	RES , CARBON	2.7K /1/5W/F
R763	CRD20TF3301T	RES , CARBON	3.3K /1/5W/F
R764	CRD20TF5601T	RES , CARBON	5.6K/1/5W/F
R765	CRD20TF7501T	RES , CARBON	7.5K/1/5W/F
R766	CRD20TF1001T	RES , CARBON	1K /1/5W /F
R767	CRD20TF1501T	RES , CARBON	1.5K /1/5W /F
R768	CRD20TF1801T	RES , CARBON	1.8K /1/5W /F
R769	CRD20TF2701T	RES , CARBON	2.7K /1/5W/F
R781	CRD20TJ102T	RES , CARBON	1K OHM 1/5W J
R782	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J
R783	CRD20TJ102T	RES , CARBON	1K OHM 1/5W J
R784	CRD20TJ102T	RES , CARBON	1K OHM 1/5W J
R786	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J
R787	CRD20TJ101T	RES , CARBON	100 OHM 1/5W J
R791	CRD20TJ822T	RES , CARBON	8.2K OHM 1/5W J
R805	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J
R806	CRD20TJ472T	RES , CARBON	4.7K OHM 1/5W J
R824	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J
R825	CRD20TJ681T	RES , CARBON	680 OHM 1/5W J
R828	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J
R829	CRD20TJ681T	RES , CARBON	680 OHM 1/5W J
R864	CRD20TJ272T	RES , CARBON	2.7K OHM 1/5W J
R865	CRD20TJ101T	RES , CARBON	100 OHM 1/5W J
R866	CRD20TJ272T	RES , CARBON	2.7K OHM 1/5W J
R869	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J
R871	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J
R872	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J
R873	CRD20TJ471T	RES , CARBON	470 OHM 1/5W J
R874	CRD20TJ471T	RES , CARBON	470 OHM 1/5W J
R875	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J
R876	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J
R877	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J
R878	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J
R892	CRD20TJ222T	RES , CARBON	2.2K OHM 1/5W J
R893	CRD20TJ333T	RES , CARBON	33K OHM 1/5W J
R895	CRD20TJ101T	RES , CARBON	100 OHM 1/5W J
R896	CRD20TJ101T	RES , CARBON	100 OHM 1/5W J
R897	CRD20TJ101T	RES , CARBON	100 OHM 1/5W J
R898	CRD20TJ101T	RES , CARBON	100 OHM 1/5W J
R899	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J
R900	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J
R901	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J

FRONT PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
R902	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J
R903	CRD20TJ102T	RES , CARBON	1K OHM 1/5W J
R904	CRD20TJ102T	RES , CARBON	1K OHM 1/5W J
R905	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J
R906	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J
R907	CRD20TJ472T	RES , CARBON	4.7K OHM 1/5W J
R908	CRD20TJ472T	RES , CARBON	4.7K OHM 1/5W J
R909	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J
R910	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J
R911	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J
R912	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J
R913	CRD20TJ102T	RES , CARBON	1K OHM 1/5W J
R915	CRD20TJ473T	RES , CARBON	47K OHM 1/5W J
R918	CRD20TJ472T	RES , CARBON	4.7K OHM 1/5W J
R919	CRD20TJ472T	RES , CARBON	4.7K OHM 1/5W J
R920	CRD20TJ102T	RES , CARBON	1K OHM 1/5W J
R921	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J
R922	CRD20TJ102T	RES , CARBON	1K OHM 1/5W J
R923	CRD20TJ101T	RES , CARBON	100 OHM 1/5W J
R924	CRD20TJ101T	RES , CARBON	100 OHM 1/5W J
R926	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J
R931	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J
R934	CRD20TJ222T	RES , CARBON	2.2K OHM 1/5W J
R935	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J
R936	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J
R937	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J
R956	CRD20TJ1R0T	RES , CARBON	1 OHM 1/5W J
S701	HST1A020ZT	SW , TACT	1A020
S702	HST1A020ZT	SW , TACT	1A020
S703	HST1A020ZT	SW , TACT	1A020
S704	HST1A020ZT	SW , TACT	1A020
S705	HST1A020ZT	SW , TACT	1A020
S706	HST1A020ZT	SW , TACT	1A020
S707	HST1A020ZT	SW , TACT	1A020
S708	HST1A020ZT	SW , TACT	1A020
S709	HST1A020ZT	SW , TACT	1A020
S710	HST1A020ZT	SW , TACT	1A020
S711	HST1A020ZT	SW , TACT	1A020
S712	HST1A020ZT	SW , TACT	1A020
S713	HST1A020ZT	SW , TACT	1A020
S714	HST1A020ZT	SW , TACT	1A020
S715	HST1A020ZT	SW , TACT	1A020
S716	HST1A020ZT	SW , TACT	1A020
S717	HST1A020ZT	SW , TACT	1A020

FRONT PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
S718	HST1A020ZT	SW , TACT	1A020
S719	HST1A020ZT	SW , TACT	1A020
S720	HST1A020ZT	SW , TACT	1A020
BK71	CMD1A209	BRACKET , FLT	A4-92-1739
BK72	CMD1A209	BRACKET , FLT	A4-92-1739
BK73	CMD1A209	BRACKET , FLT	A4-92-1739
BN10	CWZAVR230BN10	WIRE ASS'Y (SHIELD)	WIRE
BN18	CWZAVR125BN18	WIRE ASS'Y (SHIELD)	WIRE
BN22	CWZAVR145BN22	WIRE ASS'Y (SHIELD)	WIRE
BN41	CWZAVR130BN41	WIRE ASS'Y (SHIELD)	WIRE
BN80	CWB2B903180EN	WIRE ASS'Y	WIRE
BN81	CWB2B908250BM	WIRE ASS'Y	WIRE
BN84	CWB2B905080EN	WIRE ASS'Y	WIRE
BN85	CWB2B903100EW	WIRE ASS'Y	WIRE
BN88	CWB2B904100EN	WIRE ASS'Y	WIRE
BN89	CWB2B904100EN	WIRE ASS'Y	WIRE
BN92	CWB2B905100EN	WIRE ASS'Y	WIRE
CN47	CJP07GA117ZY	WAFER	WAFER
CN72	CJP17GA193ZY	WAFER, CARD CABLE (SMD)	WAFER
CN84	CJP05GB46ZY	WAFER	WAFER
CN85	CJP03GA19ZY	WAFER , STRAIGHT, 3PIN	WAFER
CN86	CJP02GA89ZM	WAFER	WAFER
CN88	CJP04GB46ZY	WAFER	WAFER
CN89	CJP04GB46ZY	WAFER	WAFER
CN92	CJP05GA19ZY	WAFER, STRAIGHT, 5PIN	WAFER
D701	CVD52CSBBCEAB2	L.E.D , BLUE	L.E.D
D703	CVD52CSBBCEAB2	L.E.D , BLUE	L.E.D
D705	CVD52CSBBCEAB2	L.E.D , BLUE	L.E.D
D723	CVD50BOBBWGA	L.E.D , 2 COLOR (ORG , BLU)	TOL-50BOBBWGA
D727	CVD50BOBBWGA	L.E.D , 2 COLOR (ORG , BLU)	TOL-50BOBBWGA
ET03	CMD1A569	BRACKET , PCB	BRACKET
FIP1	HFLHCA18ML03	F.I.P	SAMSUNG
IC41	CVINJU7301M	I.C , C-MOS SPST ANALOG SWITCH	SWITCH
IC73	HRVNJL34H380A	SENSOR , REMOCON	REMOCON
IC75	HVI74ACT04MTR	I.C , HEX	HEX
IC76	HVI74HCU04AFNG	I.C , INVERTER	INVERTER
IC86	HVINJM4556AL	I.C , HEADPHONE	HEADPHONE
IC87	HVINJM2068MDTE1	I.C , OP AMP	OP AMP
IC97	HVIST202EBW	IC , RS232C TRANSCEIVER	TRANSCEIVER
JK81	CJJ4M043Y	JACK , BOARD	ORANGE,SILVER,F
JK82	HJSTORX177L	MODULE , OPTICAL(RX)	TORX177L
JK83	CJJ2E026Z	JACK , HEADPHONE(SILVER PLATE)	JACK
JK85	CJJ9M003Z	JACK , S-VIDEO	JACK
JK86	CJJ4S023Y	JACK , BOARD	JACK

FRONT PCB ASSY

Ref. #	Part Number	Description	Value
JK97	CJJ9W001Z	9P D-SUB FEMALE(RS-232C) SEMCC	JACK
JW82	CWE8202300RV	WIRE ASS'Y	WIRE
JW83	CWE8202150RV	WIRE ASS'Y	WIRE
JW84	CWE8202110RV	WIRE ASS'Y	WIRE
RL45	CSL4A014ZE	RELAY (+12V)	AXICOM
SW1	CSH1A008ZV	SW , PUSH (MOMS)	MOMS SW
SW95	KST1A010Z	SW , TACT	1A010
SW96	HSH2B018Z	SW , PUSH	SPUJ19XSM011
SW97	HSH2B018Z	SW , PUSH	SPUJ19XSM011
VR74	CSR2A037Z	ENCODER	ENCODER

MAIN PCB ASSY

Ref. #	Part Number	Description	Value
	CFNCF12825MS	MOTOR, FAN(80*80*25MM)	FAN
	CHD1A036R	SCREW , SPECIAL	SCREW
	CHD3A012R	SCREW , SPECIAL	SCREW
	CHS1A032	TAPE , HEMELON	TAPE
	CMD1A615	BRACKET , FAN	BRACKET
	CTW3+8JR	SCREW	SCREW
	CIP11911G	MAIN PCB AUTO ASS'Y	ASS'Y
	CUP11911X	PCB , MAIN(330X247, FR-1)	PCB
C501	CCEA1HH100T	CAP , ELECT	10UF 50V
C502	CCEA1HH100T	CAP , ELECT	10UF 50V
C503	CCEA1HH100T	CAP , ELECT	10UF 50V
C504	CCEA1HH100T	CAP , ELECT	10UF 50V
C505	CCEA1HH100T	CAP , ELECT	10UF 50V
C506	CCKT1H331KB	CAP , CERAMIC	330PF 50V
C507	HCBS1H331KBT	CAP , CERAMIC	330PF 50V
C508	HCBS1H331KBT	CAP , CERAMIC	330PF 50V
C509	CCKT1H331KB	CAP , CERAMIC	330PF 50V
C510	HCBS1H331KBT	CAP , CERAMIC	330PF 50V
C561	CCEA1CH101T	CAP , ELECT	100UF 16V
C562	CCEA1CH101T	CAP , ELECT	100UF 16V
C563	CCEA1CH101T	CAP , ELECT	100UF 16V
C564	CCEA1CH101T	CAP , ELECT	100UF 16V
C565	CCEA1CH101T	CAP , ELECT	100UF 16V
C566	CCEA1CH101T	CAP , ELECT	100UF 16V
C567	CCEA1CH101T	CAP , ELECT	100UF 16V
C568	CCEA1CH101T	CAP , ELECT	100UF 16V
C569	CCEA1CH101T	CAP , ELECT	100UF 16V
C570	CCEA1CH101T	CAP , ELECT	100UF 16V
C571	HCBS1H681KBT	CAP , CERAMIC	680PF 50V
C572	HCBS1H681KBT	CAP , CERAMIC	680PF 50V
C573	HCBS1H681KBT	CAP , CERAMIC	680PF 50V

MAIN PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
C574	HCBS1H681KBT	CAP , CERAMIC	680PF 50V
C575	HCBS1H681KBT	CAP , CERAMIC	680PF 50V
C601	CCCT1H120JC	CAP , CERAMIC	12PF 50V
C602	CCCT1H120JC	CAP , CERAMIC	12PF 50V
C603	CCCT1H120JC	CAP , CERAMIC	12PF 50V
C604	CCCT1H120JC	CAP , CERAMIC	12PF 50V
C605	CCCT1H120JC	CAP , CERAMIC	12PF 50V
C606	CCCT1H330JC	CAP , CERAMIC	33PF 50V
C607	CCCT1H330JC	CAP , CERAMIC	33PF 50V
C608	CCCT1H330JC	CAP , CERAMIC	33PF 50V
C609	CCCT1H330JC	CAP , CERAMIC	33PF 50V
C610	CCCT1H330JC	CAP , CERAMIC	33PF 50V
C681	CCEA1HH100T	CAP , ELECT	10UF 50V
C682	CCEA1HH100T	CAP , ELECT	10UF 50V
C683	CCEA1HH100T	CAP , ELECT	10UF 50V
C684	CCEA1HH100T	CAP , ELECT	10UF 50V
C685	CCEA1HH100T	CAP , ELECT	10UF 50V
C721	CCKT1H221KB	CAP , CERAMIC	220PF 50V
C722	CCKT1H221KB	CAP , CERAMIC	220PF 50V
C723	CCKT1H221KB	CAP , CERAMIC	220PF 50V
C724	CCKT1H221KB	CAP , CERAMIC	220PF 50V
C725	CCKT1H221KB	CAP , CERAMIC	220PF 50V
C726	CCKT1H221KB	CAP , CERAMIC	220PF 50V
C727	CCKT1H221KB	CAP , CERAMIC	220PF 50V
C728	CCKT1H221KB	CAP , CERAMIC	220PF 50V
C801	CCEA1HH100T	CAP , ELECT	10UF 50V
C802	CCEA1HH100T	CAP , ELECT	10UF 50V
C803	CCCT1H330JC	CAP , CERAMIC	33PF 50V
C804	CCCT1H330JC	CAP , CERAMIC	33PF 50V
C805	CCCT1H120JC	CAP , CERAMIC	12PF 50V
C806	CCCT1H120JC	CAP , CERAMIC	12PF 50V
C811	CCEA1CH101T	CAP , ELECT	100UF 16V
C812	CCEA1CH101T	CAP , ELECT	100UF 16V
C813	CCEA1CH101T	CAP , ELECT	100UF 16V
C814	CCEA1CH101T	CAP , ELECT	100UF 16V
C815	CCKT1H331KB	CAP , CERAMIC	330PF 50V
C816	HCBS1H331KBT	CAP , CERAMIC	330PF 50V
C817	CCEA1HH100T	CAP , ELECT	10UF 50V
C818	CCEA1HH100T	CAP , ELECT	10UF 50V
C819	HCBS1H681KBT	CAP , CERAMIC	680PF 50V
C820	HCBS1H681KBT	CAP , CERAMIC	680PF 50V
C900	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V
C901	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V
C905	CCFT1H223ZF	CAP , CERAMIC	0.022UF 50V

MAIN PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
C907	CCEA1CH101T	CAP , ELECT	100UF 16V
C908	CCFT1H223ZF	CAP , CERAMIC	0.022UF 50V
C910	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V
C912	CCEA1CH221T	CAP , ELECT	220UF 16V
C913	CCFT1H104ZF	CAP , SEMICONDUCTOR	0.1UF 50V ZF
C914	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J
C917	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J
C918	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J
C919	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J
C924	CCFT1H104ZF	CAP , SEMICONDUCTOR	0.1UF 50V ZF
C925	CCFT1H104ZF	CAP , SEMICONDUCTOR	0.1UF 50V ZF
C932	CCEA1CH101T	CAP , ELECT	100UF 16V
C933	CCEA1CH221T	CAP , ELECT	220UF 16V
C934	CCFT1H223ZF	CAP , CERAMIC	0.022UP 50V
C939	CCEA1HH4R7T	CAP , ELECT	4.7UF 50V
C940	CCEA1AH471T	CAP , ELECT	470UF 10V
C948	CCFT1H104ZF	CAP , SEMICONDUCTOR	0.1UF 50V ZF
C949	CCEA1HH220T	CAP , ELECT	22UF 50V
C950	CCEA1AH471T	CAP , ELECT	470UF 10V
C971	HCQI1H562JZT	CAP , MYLAR	5600PF 50V
C972	HCQI1H562JZT	CAP , MYLAR	5600PF 50V
C973	HCQI1H562JZT	CAP , MYLAR	5600PF 50V
C974	HCQI1H562JZT	CAP , MYLAR	5600PF 50V
C975	HCQI1H562JZT	CAP , MYLAR	5600PF 50V
C980	HCQI1H562JZT	CAP , MYLAR	5600PF 50V
C981	HCQI1H562JZT	CAP , MYLAR	5600PF 50V
C990	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J
C991	CCEA1HH1R0T	CAP , ELECT	1UF 50V
C992	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J
C993	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J
C994	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J
C995	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J
C996	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J
C997	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J
C999	CCFT1H223ZF	CAP , CERAMIC	0.022UP 50V
D501	CVD1SS133MT	DIODE	1SS133
D502	CVD1SS133MT	DIODE	1SS133
D503	CVD1SS133MT	DIODE	1SS133
D504	CVD1SS133MT	DIODE	1SS133
D505	CVD1SS133MT	DIODE	1SS133
D581	CVD1SS133MT	DIODE	1SS133
D582	CVD1SS133MT	DIODE	1SS133
D583	CVD1SS133MT	DIODE	1SS133
D584	CVD1SS133MT	DIODE	1SS133

MAIN PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
D585	CVD1SS133MT	DIODE	1SS133
D801	CVD1SS133MT	DIODE	1SS133
D802	CVD1SS133MT	DIODE	1SS133
D803	CVD1SS133MT	DIODE	1SS133
D804	CVD1SS133MT	DIODE	1SS133
D901	CVD1N4003SRT	DIODE , RECT	1N4003
D902	CVD1SS133MT	DIODE	1SS133
D911	CVD1SS133MT	DIODE	1SS133
D912	CVD1SS133MT	DIODE	1SS133
D914	CVD1SS133MT	DIODE	1SS133
D917	CVD1SS133MT	DIODE	1SS133
D953	CVD1SS133MT	DIODE	1SS133
D954	CVD1N4003SRT	DIODE , RECT	1N4003
D955	CVD1N4003SRT	DIODE , RECT	1N4003
D956	CVD1N4003SRT	DIODE , RECT	1N4003
D957	CVD1N4003SRT	DIODE , RECT	1N4003
D961	CVD1N4003ST	DIODE , RECT	1N4003
D962	CVD1N4003SRT	DIODE , RECT	1N4003
D963	CVD1N4003ST	DIODE , RECT	1N4003
D964	CVD1SS133MT	DIODE	1SS133
D967	CVD1SS133MT	DIODE	1SS133
D968	CVD1SS133MT	DIODE	1SS133
D969	CVD1SS133MT	DIODE	1SS133
D971	CVD1SS133MT	DIODE	1SS133
D972	CVD1SS133MT	DIODE	1SS133
D973	CVD1SS133MT	DIODE	1SS133
D974	CVD1SS133MT	DIODE	1SS133
D979	HVDMTZJ6.2BT	DIODE , ZENER	MTZJ6.2B
D980	CVD1SS133MT	DIODE	1SS133
ET90	HJT1A025	PALTE , EARTH	MET37-0002
ET91	HJT1A025	PALTE , EARTH	MET37-0002
F901	KJCFC5S	HOLDER , FUSE	HOLDER
F902	KBA2D2500TLET	FUSE(SR-5,2.5A,250V)	SAVE FUSETECH
Q501	HVTKTA1268GRT	T.R	KTA1268GR
Q502	HVTKTA1268GRT	T.R	KTA1268GR
Q503	HVTKTA1268GRT	T.R	KTA1268GR
Q504	HVTKTA1268GRT	T.R	KTA1268GR
Q505	HVTKTA1268GRT	T.R	KTA1268GR
Q511	HVTKTC3200GRT	T.R	KTC3200GR
Q512	HVTKTC3200GRT	T.R	KTC3200GR
Q513	HVTKTC3200GRT	T.R	KTC3200GR
Q514	HVTKTC3200GRT	T.R	KTC3200GR
Q515	HVTKTC3200GRT	T.R	KTC3200GR
Q516	HVTKTC3200GRT	T.R	KTC3200GR

MAIN PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
Q517	HVTKTC3200GRT	T.R	KTC3200GR
Q518	HVTKTC3200GRT	T.R	KTC3200GR
Q519	HVTKTC3200GRT	T.R	KTC3200GR
Q520	HVTKTC3200GRT	T.R	KTC3200GR
Q541	HVTKTC3198YT	T.R	KTC3198Y
Q542	HVTKTC3198YT	T.R	KTC3198Y
Q543	HVTKTC3198YT	T.R	KTC3198Y
Q544	HVTKTC3198YT	T.R	KTC3198Y
Q545	HVTKTC3198YT	T.R	KTC3198Y
Q556	HVTKTC3200GRT	T.R	KTC3200GR
Q557	HVTKTC3200GRT	T.R	KTC3200GR
Q558	HVTKTC3200GRT	T.R	KTC3200GR
Q559	HVTKTC3200GRT	T.R	KTC3200GR
Q560	HVTKTC3200GRT	T.R	KTC3200GR
Q561	HVTKTC3200GRT	T.R	KTC3200GR
Q562	HVTKTC3200GRT	T.R	KTC3200GR
Q563	HVTKTC3200GRT	T.R	KTC3200GR
Q564	HVTKTC3200GRT	T.R	KTC3200GR
Q565	HVTKTC3200GRT	T.R	KTC3200GR
Q601	HVTKTA1268GRT	T.R	KTA1268GR
Q602	HVTKTA1268GRT	T.R	KTA1268GR
Q603	HVTKTA1268GRT	T.R	KTA1268GR
Q604	HVTKTA1268GRT	T.R	KTA1268GR
Q605	HVTKTA1268GRT	T.R	KTA1268GR
Q681	HVTKSC2785YT	T.R	KSC2785Y
Q682	HVTKSC2785YT	T.R	KSC2785Y
Q683	HVTKSC2785YT	T.R	KSC2785Y
Q684	HVTKSC2785YT	T.R	KSC2785Y
Q685	HVTKSC2785YT	T.R	KSC2785Y
Q801	HVTKSC2785YT	T.R	KSC2785Y
Q802	HVTKSC2785YT	T.R	KSC2785Y
Q812	HVTKTA1268GRT	T.R	KTA1268GR
Q813	HVTKTC3200GRT	T.R	KTC3200GR
Q814	HVTKTA1268GRT	T.R	KTA1268GR
Q815	HVTKTC3200GRT	T.R	KTC3200GR
Q816	HVTKTA1268GRT	T.R	KTA1268GR
Q817	HVTKTA1268GRT	T.R	KTA1268GR
Q818	HVTKTC3200GRT	T.R	KTC3200GR
Q819	HVTKTC3200GRT	T.R	KTC3200GR
Q820	HVTKTC3200GRT	T.R	KTC3200GR
Q821	HVTKTC3200GRT	T.R	KTC3200GR
Q822	HVTKTC3200GRT	T.R	KTC3200GR
Q823	HVTKTC3200GRT	T.R	KTC3200GR
Q824	HVTKTC3198YT	T.R	KTC3198Y

MAIN PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
Q825	HVTKTC3198YT	T.R	KTC3198Y
Q901	HVTKSC2785YT	T.R	KSC2785Y
Q911	HVTKTA1271YT	T.R	KTA1271Y
Q912	HVTKTA1271YT	T.R	KTA1271Y
Q913	HVTKTA1271YT	T.R	KTA1271Y
Q914	HVTKTA1271YT	T.R	KTA1271Y
Q915	HVTKSC2785YT	T.R	KSC2785Y
Q916	HVTKSC2785YT	T.R	KSC2785Y
Q917	HVTKSC2785YT	T.R	KSC2785Y
Q918	HVTKSC2785YT	T.R	KSC2785Y
Q938	HVTKRA107MT	T.R	KRA107M
Q939	HVTKRA107MT	T.R	KRA107M
Q942	HVTKSC2785YT	T.R	KSC2785Y
Q943	HVTKSC2785YT	T.R	KSC2785Y
Q951	HVTKRC107MT	T.R	KRC107M
Q952	HVTKRA107MT	T.R	KRA107M
Q960	HVTKRC107MT	T.R	KRC107M
Q961	HVTKTA1024YT	T.R	KTA1024YT
Q991	HVTKRC107MT	T.R	KRC107M
Q992	HVTKRA107MT	T.R	KRA107M
Q993	HVTKRA107MT	T.R	KRA107M
Q994	HVTKRC107MT	T.R	KRC107M
Q997	HVTKRA107MT	T.R	KRA107M
Q998	HVTKRC107MT	T.R	KRC107M
R501	CRD20TJ433T	RES , CARBON	43K OHM 1/5W J
R502	CRD20TJ433T	RES , CARBON	43K OHM 1/5W J
R503	CRD20TJ433T	RES , CARBON	43K OHM 1/5W J
R504	CRD20TJ433T	RES , CARBON	43K OHM 1/5W J
R505	CRD20TJ433T	RES , CARBON	43K OHM 1/5W J
R506	CRD20TJ333T	RES , CARBON	33K OHM 1/5W J
R507	CRD20TJ333T	RES , CARBON	33K OHM 1/5W J
R508	CRD20TJ333T	RES , CARBON	33K OHM 1/5W J
R509	CRD20TJ333T	RES , CARBON	33K OHM 1/5W J
R510	CRD20TJ333T	RES , CARBON	33K OHM 1/5W J
R511	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J
R512	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J
R513	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J
R514	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J
R515	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J
R516	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J
R517	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J
R518	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J
R519	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J
R520	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J

MAIN PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
R521	CRD20TJ471T	RES , CARBON	470 OHM 1/5W J
R522	CRD20TJ471T	RES , CARBON	470 OHM 1/5W J
R523	CRD20TJ471T	RES , CARBON	470 OHM 1/5W J
R524	CRD20TJ471T	RES , CARBON	470 OHM 1/5W J
R525	CRD20TJ471T	RES , CARBON	470 OHM 1/5W J
R531	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J
R532	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J
R533	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J
R534	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J
R535	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J
R536	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J
R537	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J
R538	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J
R539	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J
R540	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J
R541	CRD20TJ271T	RES , CARBON	270 OHM 1/5W J
R542	CRD20TJ271T	RES , CARBON	270 OHM 1/5W J
R543	CRD20TJ271T	RES , CARBON	270 OHM 1/5W J
R544	CRD20TJ271T	RES , CARBON	270 OHM 1/5W J
R545	CRD20TJ271T	RES , CARBON	270 OHM 1/5W J
R556	CRD20TJ273T	RES , CARBON	27K OHM 1/5W J
R557	CRD20TJ273T	RES , CARBON	27K OHM 1/5W J
R558	CRD20TJ273T	RES , CARBON	27K OHM 1/5W J
R559	CRD20TJ273T	RES , CARBON	27K OHM 1/5W J
R560	CRD20TJ273T	RES , CARBON	27K OHM 1/5W J
R561	CRD20TJ162T	RES , CARBON	1.6K OHM 1/5W J
R562	CRD20TJ162T	RES , CARBON	1.6K OHM 1/5W J
R563	CRD20TJ162T	RES , CARBON	1.6K OHM 1/5W J
R564	CRD20TJ162T	RES , CARBON	1.6K OHM 1/5W J
R565	CRD20TJ162T	RES , CARBON	1.6K OHM 1/5W J
R566	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R567	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R568	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R569	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R570	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R571	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R572	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R573	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R574	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R575	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R576	CRD20TJ100T	RES , CARBON	10 OHM 1/5W J
R577	CRD20TJ100T	RES , CARBON	10 OHM 1/5W J
R578	CRD20TJ100T	RES , CARBON	10 OHM 1/5W J
R579	CRD20TJ100T	RES , CARBON	10 OHM 1/5W J

MAIN PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
R580	CRD20TJ100T	RES , CARBON	10 OHM 1/5W J
R581	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R582	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R583	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R584	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R585	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R586	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R587	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R588	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R589	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R590	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R591	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R592	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R593	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R594	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R595	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R596	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R597	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R598	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R599	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R600	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R601	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J
R602	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J
R603	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J
R604	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J
R605	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J
R606	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J
R607	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J
R608	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J
R609	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J
R610	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J
R611	CRD20TJ100T	RES , CARBON	10 OHM 1/5W J
R612	CRD20TJ100T	RES , CARBON	10 OHM 1/5W J
R631	CRD25FJ180T	RES , CARBON	18 OHM 1/4W
R632	CRD25FJ180T	RES , CARBON	18 OHM 1/4W
R633	CRD25FJ180T	RES , CARBON	18 OHM 1/4W
R634	CRD25FJ180T	RES , CARBON	18 OHM 1/4W
R635	CRD25FJ180T	RES , CARBON	18 OHM 1/4W
R636	CRD25FJ180T	RES , CARBON	18 OHM 1/4W
R637	CRD25FJ180T	RES , CARBON	18 OHM 1/4W
R638	CRD25FJ180T	RES , CARBON	18 OHM 1/4W
R639	CRD25FJ180T	RES , CARBON	18 OHM 1/4W
R640	CRD25FJ180T	RES , CARBON	18 OHM 1/4W
R646	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J

MAIN PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
R647	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J
R648	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J
R649	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J
R650	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J
R651	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J
R652	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J
R653	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J
R654	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J
R655	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J
R666	CRD25TJ470T	RES , CARBON	47 OHM 1/4W
R667	CRD25TJ470T	RES , CARBON	47 OHM 1/4W
R668	CRD25TJ470T	RES , CARBON	47 OHM 1/4W
R669	CRD25TJ470T	RES , CARBON	47 OHM 1/4W
R670	CRD25TJ470T	RES , CARBON	47 OHM 1/4W
R671	CRD20TJ911T	RES , CARBON	910 OHM 1/5W J
R672	CRD20TJ911T	RES , CARBON	910 OHM 1/5W J
R673	CRD20TJ911T	RES , CARBON	910 OHM 1/5W J
R674	CRD20TJ911T	RES , CARBON	910 OHM 1/5W J
R675	CRD20TJ911T	RES , CARBON	910 OHM 1/5W J
R676	CRD20TJ182T	RES , CARBON	1.8K OHM 1/5W J
R677	CRD20TJ182T	RES , CARBON	1.8K OHM 1/5W J
R678	CRD20TJ182T	RES , CARBON	1.8K OHM 1/5W J
R679	CRD20TJ182T	RES , CARBON	1.8K OHM 1/5W J
R680	CRD20TJ182T	RES , CARBON	1.8K OHM 1/5W J
R681	CRD20TJ562T	RES , CARBON	5.6K OHM 1/5W J
R682	CRD20TJ562T	RES , CARBON	5.6K OHM 1/5W J
R683	CRD20TJ562T	RES , CARBON	5.6K OHM 1/5W J
R684	CRD20TJ562T	RES , CARBON	5.6K OHM 1/5W J
R685	CRD20TJ562T	RES , CARBON	5.6K OHM 1/5W J
R686	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J
R687	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J
R688	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J
R689	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J
R690	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J
R696	CRD25TJ470T	RES , CARBON	47 OHM 1/4W
R697	CRD25TJ470T	RES , CARBON	47 OHM 1/4W
R698	CRD25TJ470T	RES , CARBON	47 OHM 1/4W
R699	CRD25TJ470T	RES , CARBON	47 OHM 1/4W
R700	CRD25TJ470T	RES , CARBON	47 OHM 1/4W
R771	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J
R772	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J
R773	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J
R774	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J
R775	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J

MAIN PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
R776	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J
R777	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J
R781	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J
R782	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J
R783	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J
R784	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J
R785	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J
R786	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J
R787	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J
R801	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J
R802	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J
R803	CRD20TJ562T	RES , CARBON	5.6K OHM 1/5W J
R804	CRD20TJ562T	RES , CARBON	5.6K OHM 1/5W J
R805	CRD20TJ911T	RES , CARBON	910 OHM 1/5W J
R807	CRD20TJ911T	RES , CARBON	910 OHM 1/5W J
R808	CRD20TJ182T	RES , CARBON	1.8K OHM 1/5W J
R809	CRD20TJ182T	RES , CARBON	1.8K OHM 1/5W J
R812	CRD25TJ470T	RES , CARBON	47 OHM 1/4W
R813	CRD25TJ470T	RES , CARBON	47 OHM 1/4W
R814	CRD25TJ470T	RES , CARBON	47 OHM 1/4W
R815	CRD25TJ470T	RES , CARBON	47 OHM 1/4W
R817	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J
R818	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J
R819	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J
R820	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J
R821	CRD25FJ180T	RES , CARBON	18 OHM 1/4W
R822	CRD25FJ180T	RES , CARBON	18 OHM 1/4W
R823	CRD25FJ180T	RES , CARBON	18 OHM 1/4W
R824	CRD25FJ180T	RES , CARBON	18 OHM 1/4W
R830	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J
R831	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J
R832	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J
R833	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J
R834	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R835	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R836	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R837	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R838	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R839	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R840	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R841	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R842	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R843	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R844	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J

MAIN PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
R845	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R848	CRD20TJ273T	RES , CARBON	27K OHM 1/5W J
R849	CRD20TJ273T	RES , CARBON	27K OHM 1/5W J
R850	CRD20TJ162T	RES , CARBON	1.6K OHM 1/5W J
R851	CRD20TJ162T	RES , CARBON	1.6K OHM 1/5W J
R852	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J
R853	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J
R854	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J
R855	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J
R856	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J
R857	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J
R858	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J
R859	CRD20TJ221T	RES , CARBON	220 OHM 1/5W J
R860	CRD20TJ271T	RES , CARBON	270 OHM 1/5W J
R861	CRD20TJ271T	RES , CARBON	270 OHM 1/5W J
R862	CRD20TJ333T	RES , CARBON	33K OHM 1/5W J
R863	CRD20TJ333T	RES , CARBON	33K OHM 1/5W J
R870	CRD20TJ433T	RES , CARBON	43K OHM 1/5W J
R871	CRD20TJ433T	RES , CARBON	43K OHM 1/5W J
R872	CRD20TJ471T	RES , CARBON	470 OHM 1/5W J
R873	CRD20TJ471T	RES , CARBON	470 OHM 1/5W J
R900	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J
R901	CRD25TJ393T	RES , CARBON	39K OHM 1/4W
R902	CRD25TJ393T	RES , CARBON	39K OHM 1/4W
R903	CRD25TJ393T	RES , CARBON	39K OHM 1/4W
R906	CRD25TJ393T	RES , CARBON	39K OHM 1/4W
R907	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J
R908	CRD20TJ105T	RES , CARBON	1M OHM 1/5W J
R909	CRD20TJ682T	RES , CARBON	6.8K OHM 1/5W J
R910	CRD20TJ105T	RES , CARBON	1M OHM 1/5W J
R911	CRD25TJ680T	RES , CARBON	68 OHM 1/4W J
R912	CRD20TJ332T	RES , CARBON	3.3K OHM 1/5W J
R917	CRD25TJ393T	RES , CARBON	39K OHM 1/4W
R918	CRD25TJ393T	RES , CARBON	39K OHM 1/4W
R919	CRD25TJ393T	RES , CARBON	39K OHM 1/4W
R920	CRD25TJ393T	RES , CARBON	39K OHM 1/4W
R921	CRD25FJ180T	RES , CARBON	18 OHM 1/4W J
R922	CRD25TJ470T	RES , CARBON	47 OHM 1/4W J
R923	CRD20TJ220T	RES , CARBON	22 OHM 1/5W J
R924	CRD20TJ473T	RES , CARBON	47K OHM 1/5W J
R925	CRD20TJ473T	RES , CARBON	47K OHM 1/5W J
R926	CRD20TJ473T	RES , CARBON	47K OHM 1/5W J
R927	CRD20TJ473T	RES , CARBON	47K OHM 1/5W J
R928	CRD20TJ222T	RES , CARBON	2.2K OHM 1/5W J

MAIN PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
R929	CRD20TJ222T	RES , CARBON	2.2K OHM 1/5W J
R930	CRD20TJ222T	RES , CARBON	2.2K OHM 1/5W J
R931	CRD20TJ222T	RES , CARBON	2.2K OHM 1/5W J
R932	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J
R933	CRD20TJ472T	RES , CARBON	4.7K OHM 1/5W J
R934	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J
R935	CRD20TJ154T	RES , CARBON	150K OHM 1/5W J
R936	CRD20TJ184T	RES , CARBON	180K OHM 1/5W J
R939	CRD20TJ472T	RES , CARBON	4.7K OHM 1/5W J
R940	CRD20TJ152T	RES , CARBON	1.5K OHM 1/5W J
R941	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J
R942	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J
R943	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J
R944	CRD25TJ223T	RES , CARBON	22K OHM 1/4W J
R945	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J
R946	CRD25TJ223T	RES , CARBON	22K OHM 1/4W J
R947	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J
R948	CRD25TJ222T	RES , CARBON	2.2K OHM 1/4W J
R949	CRD20TJ822T	RES , CARBON	8.2K OHM 1/5W J
R952	CRD25TJ223T	RES , CARBON	22K OHM 1/4W J
R953	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J
R954	CRD20TJ223T	RES , CARBON	22K OHM 1/5W J
R955	CRD20TJ203T	RES , CARBON	20K OHM 1/5W J
R956	CRD20TJ394T	RES , CARBON	390K OHM 1/5W J
R957	CRD20TJ153T	RES , CARBON	15K OHM 1/5W J
R958	CRD20TJ563T	RES , CARBON	56K OHM 1/5W J
R959	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J
R960	CRD20TJ332T	RES , CARBON	3.3K OHM 1/5W J
R961	CRD20TJ331T	RES , CARBON	330 OHM 1/5W J
R962	CRD20TJ273T	RES , CARBON	27K OHM 1/5W J
R963	CRD20TJ105T	RES , CARBON	1M OHM 1/5W J
R966	CRD20TJ472T	RES , CARBON	4.7K OHM 1/5W J
R967	CRD20TJ562T	RES , CARBON	5.6K OHM 1/5W J
R968	CRD20TJ105T	RES , CARBON	1M OHM 1/5W J
R969	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J
R980	CRD20TJ473T	RES , CARBON	47K OHM 1/5W J
R986	CRD20TJ102T	RES , CARBON	1K OHM 1/5W J
R987	CRD20TJ561T	RES , CARBON	560 OHM 1/5W J
R988	CRD20TJ562T	RES , CARBON	5.6K OHM 1/5W J
R989	CRD20TJ302T	RES , CARBON	3K OHM 1/5W J
R991	CRD20TJ822T	RES , CARBON	8.2K OHM 1/5W J
R992	CRD20TJ562T	RES , CARBON	5.6K OHM 1/5W J
R998	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J
Q652	HVT2SB1647-OKM	T.R , POWER	2SB1647

MAIN PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
Q653	HVT2SB1647-OKM	T.R , POWER	2SB1647
Q654	HVT2SB1647-OKM	T.R , POWER	2SB1647
Q655	HVT2SB1647-OKM	T.R , POWER	2SB1647
Q657	HVT2SD2560-OKM	T.R , POWER	2SD2560
Q658	HVT2SD2560-OKM	T.R , POWER	2SD2560
Q659	HVT2SD2560-OKM	T.R , POWER	2SD2560
Q660	HVT2SD2560-OKM	T.R , POWER	2SD2560
Q661	HVT2SB1647-OKM	T.R , POWER	2SB1647
Q670	HVT2SD2560-OKM	T.R , POWER	2SD2560
Q803	HVT2SD2560-OKM	T.R , POWER	2SD2560
Q804	HVT2SB1647-OKM	T.R , POWER	2SB1647
Q805	HVT2SD2560-OKM	T.R , POWER	2SD2560
Q807	HVT2SB1647-OKM	T.R , POWER	2SB1647
BN19	CWB3FE03250UP	WIRE ASS'Y	WIRE
BN20	CWB3FC04280UP	WIRE ASS'Y	WIRE
BN81	CWB1C902050EN	WIRE ASS'Y	WIRE
BN82	CWB1C902050EN	WIRE ASS'Y	WIRE
BN83	CWB1C902050EN	WIRE ASS'Y	WIRE
BN84	CWB1C902050EN	WIRE ASS'Y	WIRE
BN85	CWB1C902050EN	WIRE ASS'Y	WIRE
BN86	CWB1C902050EN	WIRE ASS'Y	WIRE
BN87	CWB1C902050EN	WIRE ASS'Y	WIRE
BN88	CWB2B906070EN	WIRE ASS'Y	WIRE
BN89	CWB1C902250BM	WIRE ASS'Y	WIRE
BN90	CWB4F232550PU	WIRE ASS'Y	WIRE
BN97	CWZAVR340BN97	WIRE ASS'Y	WIRE
BN98	HJP08GA130ZK	WAFER	WAFER
CN11	CJP17GA117ZY	WAFER	WAFER
CN12	CJP21GA115ZY	WAFER , CARD CABLE	WAFER
CN61	CJP02GA01ZY	WAFER, STRAIGHT, 2PIN	WAFER
CN62	CJP02GA01ZY	WAFER, STRAIGHT, 2PIN	WAFER
CN63	CJP02GA01ZY	WAFER, STRAIGHT, 2PIN	WAFER
CN64	CJP02GA01ZY	WAFER, STRAIGHT, 2PIN	WAFER
CN65	CJP02GA01ZY	WAFER, STRAIGHT, 2PIN	WAFER
CN66	CJP02GA01ZY	WAFER, STRAIGHT, 2PIN	WAFER
CN67	CJP02GA01ZY	WAFER, STRAIGHT, 2PIN	WAFER
CN89	CJP02GA01ZY	WAFER, STRAIGHT, 2PIN	WAFER
CN91	CJP02GA89ZY	WAFER	WAFER
CN92	CJP02KA060ZY	WAFER	WAFER
CN92	KJP02KA060ZY	WAFER	WAFER
CN93	CJP02GA01ZY	WAFER, STRAIGHT, 2PIN	WAFER
C631	CCEA1JH221E	CAP , ELECT	220UF 63V
C632	CCEA1JH221E	CAP , ELECT	220UF 63V
C633	CCEA1JH221E	CAP , ELECT	220UF 63V

MAIN PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
C634	CCEA1JH221E	CAP , ELECT	220UF 63V
C635	CCEA1JH221E	CAP , ELECT	220UF 63V
C636	CCEA1JH221E	CAP , ELECT	220UF 63V
C637	CCEA1JH221E	CAP , ELECT	220UF 63V
C638	CCEA1JH221E	CAP , ELECT	220UF 63V
C639	CCEA1JH221E	CAP , ELECT	220UF 63V
C640	CCEA1JH221E	CAP , ELECT	220UF 63V
C807	CCEA1JH221E	CAP , ELECT	220UF 63V
C808	CCEA1JH221E	CAP , ELECT	220UF 63V
C809	CCEA1JH221E	CAP , ELECT	220UF 63V
C810	CCEA1JH221E	CAP , ELECT	220UF 63V
C902	CCET63VKL5822NK	CAP , ELECT	8200UF 63V
C904	KCKDKS472ME	CAP , CERAMIC(X1/Y2/SC)	0.0047UF 2.5KV
C906	CCEA1EH102E	CAP , ELECT	1000UF 25V
C909	CCET63VKL5822NK	CAP , ELECT	8200UF 63V
C911	CCEA1EH471T	CAP , ELECT	470UF 25V
C915	CCET63VKL5123NK	CAP , ELECT	12000UF 63V
C916	CCET63VKL5123NK	CAP , ELECT	12000UF 63V
ET01	CMD1A387	BRACKET , PCB	BRACKET
IC94	HVIMC7805C	I.C, REGULATOR(+5V)	FAIRCHILD
IC97	HVIS-80842CNY-X	I.C RESET	SEIKO
JK91	CJJ5R006Z	TERMINAL , SPEAKER	TERMINAL
JK92	CJJ5Q012Z	TERMINAL , SPEAKER	TERMINAL
JK97	CJJ4P041W	JACK IN/OUT	JACK
JK98	CJJ4P042W	JACK IN/OUT	JACK
JW90	CWE8212120VV	WIRE , RED	MOLEX-5298
JW91	CWE8212180VV	WIRE ASS'Y	WIRE
JW93	CWEP202110VV	WIRE	WIRE
L501	CLEY0R5KAK	COIL , SPEAKER	0.5UH K
L502	CLEY0R5KAK	COIL , SPEAKER	0.5UH K
L503	CLEY0R5KAK	COIL , SPEAKER	0.5UH K
L504	CLEY0R5KAK	COIL , SPEAKER	0.5UH K
L505	CLEY0R5KAK	COIL , SPEAKER	0.5UH K
L506	CLEY0R5KAK	COIL , SPEAKER	0.5UH K
L507	CLEY0R5KAK	COIL , SPEAKER	0.5UH K
OL91	KJJ7A022Z	OUTLET , AC(EUR/1P)	A302D0061P
Q858	HVT2SA1360O	T.R	2SA1360O
Q871	HVT2SA1360O	T.R	2SA1360O
Q872	HVT2SA1360O	T.R	2SA1360O
Q874	HVT2SA1360O	T.R	2SA1360O
Q875	HVT2SA1360O	T.R	2SA1360O
Q876	HVT2SA1360O	T.R	2SA1360O
Q877	HVT2SA1360O	T.R	2SA1360O
Q881	HVT2SC3423O	T.R	2SC3423O

MAIN PCB ASSY

Ref. #	Part Number	Description	Value
Q882	HVT2SC3423O	T.R	2SC3423O
Q883	HVT2SC3423O	T.R	2SC3423O
Q884	HVT2SC3423O	T.R	2SC3423O
Q885	HVT2SC3423O	T.R	2SC3423O
Q886	HVT2SC3423O	T.R	2SC3423O
Q887	HVT2SC3423O	T.R	2SC3423O
RY94	HSL1A008ZE	RELAY(+12VDC)	SDT-S-112DMR
R656	CRF5EKR27HX2K	RES , CEMENT	0.27ohm X 2
R657	CRF5EKR27HX2K	RES , CEMENT	0.27ohm X 2
R658	CRF5EKR27HX2K	RES , CEMENT	0.27ohm X 2
R659	CRF5EKR27HX2K	RES , CEMENT	0.27ohm X 2
R660	CRF5EKR27HX2K	RES , CEMENT	0.27ohm X 2
R810	CRF5EKR27HX2K	RES , CEMENT	0.27ohm X 2
R811	CRF5EKR27HX2K	RES , CEMENT	0.27ohm X 2
R905	CRG1ANJ100H	RES , METAL OXIDE FILM	10 OHM 1W J
R990	CRG1ANJ100H	RES , METAL OXIDE FILM	10 OHM 1W J
R993	CRG1ANJ100H	RES , METAL OXIDE FILM	10 OHM 1W J
R994	CRG1ANJ100H	RES , METAL OXIDE FILM	10 OHM 1W J
R995	CRG1ANJ100H	RES , METAL OXIDE FILM	10 OHM 1W J
R996	CRG1ANJ100H	RES , METAL OXIDE FILM	10 OHM 1W J
R997	CRG1ANJ100H	RES , METAL OXIDE FILM	10 OHM 1W J
R999	CRG1ANJ100H	RES , METAL OXIDE FILM	10 OHM 1W J
TH91	KRTP42T7D330B	THERMAL SENSOR , POSISTOR	P42T7D330BW20
T902	CLT5J038ZE	TRANS , SUB	TRANS

INPUT PCB ASSY

Ref. #	Part Number	Description	Value
	CIP11913GSMD	INPUT PCB SMD ASS'Y	ASS'Y
	CUP11913Z	PCB , INPUT	PCB
C201	CCUS1H221JA	CAP , CHIP	220PF
C202	CCUS1H221JA	CAP , CHIP	220PF
C203	CCUS1H221JA	CAP , CHIP	220PF
C204	CCUS1H221JA	CAP , CHIP	220PF
C205	CCUS1H221JA	CAP , CHIP	220PF
C206	CCUS1H221JA	CAP , CHIP	220PF
C207	CCUS1H221JA	CAP , CHIP	220PF
C208	CCUS1H221JA	CAP , CHIP	220PF
C209	CCUS1H221JA	CAP , CHIP	220PF
C210	CCUS1H221JA	CAP , CHIP	220PF
C211	CCUS1H221JA	CAP , CHIP	220PF
C212	CCUS1H221JA	CAP , CHIP	220PF
C213	CCUS1H221JA	CAP , CHIP	220PF
C214	CCUS1H221JA	CAP , CHIP	220PF
C215	CCUS1H221JA	CAP , CHIP	220PF

INPUT PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
C216	CCUS1H221JA	CAP , CHIP	220PF
C219	CCUS1H221JA	CAP , CHIP	220PF
C220	CCUS1H221JA	CAP , CHIP	220PF
C221	CCUS1H221JA	CAP , CHIP	220PF
C222	CCUS1H221JA	CAP , CHIP	220PF
C223	CCUS1H221JA	CAP , CHIP	220PF
C224	CCUS1H221JA	CAP , CHIP	220PF
C225	CCUS1H221JA	CAP , CHIP	220PF
C226	CCUS1H221JA	CAP , CHIP	220PF
C260	CCUS1H104KC	CAP , CHIP	0.1UF
C269	CCUS1A105KC	CAP , CHIP	1UF
C274	CCUS1A105KC	CAP , CHIP	1UF
C277	CCUS1H104KC	CAP , CHIP	0.1UF
C278	CCUS1H104KC	CAP , CHIP	0.1UF
C279	CCUS1H104KC	CAP , CHIP	0.1UF
C280	CCUS1H104KC	CAP , CHIP	0.1UF
C289	CCUS1H104KC	CAP , CHIP	0.1UF
C290	CCUS1H104KC	CAP , CHIP	0.1UF
C291	CCUS1H104KC	CAP , CHIP	0.1UF
C293	CCUS1H104KC	CAP , CHIP	0.1UF
C295	CCUS1H272KC	CAP , CHIP	2700PF
C296	CCUS1H272KC	CAP , CHIP	2700PF
C299	CCUS1H104KC	CAP , CHIP	0.1UF
C301	CCUS1H152KC	CAP , CHIP	1500PF
C302	CCUS1H152KC	CAP , CHIP	1500PF
C303	CCUS1H152KC	CAP , CHIP	1500PF
C304	CCUS1H152KC	CAP , CHIP	1500PF
C305	CCUS1H152KC	CAP , CHIP	1500PF
C306	CCUS1H152KC	CAP , CHIP	1500PF
C307	CCUS1H152KC	CAP , CHIP	1500PF
C308	CCUS1H152KC	CAP , CHIP	1500PF
C309	CCUS1H102KC	CAP , CHIP	1000PF
C310	CCUS1H102KC	CAP , CHIP	1000PF
C311	CCUS1H102KC	CAP , CHIP	1000PF
C312	CCUS1H102KC	CAP , CHIP	1000PF
C313	CCUS1H102KC	CAP , CHIP	1000PF
C314	CCUS1H102KC	CAP , CHIP	1000PF
C315	CCUS1H102KC	CAP , CHIP	1000PF
C316	CCUS1H102KC	CAP , CHIP	1000PF
C317	CCUS1H223KC	CAP , CHIP	0.022UF
C318	CCUS1H223KC	CAP , CHIP	0.022UF
C319	CCUS1H223KC	CAP , CHIP	0.022UF
C320	CCUS1H223KC	CAP , CHIP	0.022UF
C321	CCUS1H681JA	CAP , CHIP	680PF

INPUT PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
C322	CCUS1H681JA	CAP , CHIP	680PF
C323	CCUS1H681JA	CAP , CHIP	680PF
C324	CCUS1H681JA	CAP , CHIP	680PF
C325	CCUS1H681JA	CAP , CHIP	680PF
C326	CCUS1H681JA	CAP , CHIP	680PF
C327	CCUS1H681JA	CAP , CHIP	680PF
C328	CCUS1H681JA	CAP , CHIP	680PF
C329	CCUS1H681JA	CAP , CHIP	680PF
C330	CCUS1H681JA	CAP , CHIP	680PF
C331	CCUS1H681JA	CAP , CHIP	680PF
C332	CCUS1H681JA	CAP , CHIP	680PF
C333	CCUS1H681JA	CAP , CHIP	680PF
C334	CCUS1H681JA	CAP , CHIP	680PF
C335	CCUS1H681JA	CAP , CHIP	680PF
C336	CCUS1H681JA	CAP , CHIP	680PF
C337	CCUS1H223KC	CAP , CHIP	0.022UF
C338	CCUS1H223KC	CAP , CHIP	0.022UF
C339	CCUS1H223KC	CAP , CHIP	0.022UF
C340	CCUS1H223KC	CAP , CHIP	0.022UF
C350	CCUS1H102KC	CAP , CHIP	1000PF
C351	CCUS1H102KC	CAP , CHIP	1000PF
C352	CCUS1H102KC	CAP , CHIP	1000PF
C353	CCUS1H102KC	CAP , CHIP	1000PF
C354	CCUS1H102KC	CAP , CHIP	1000PF
C355	CCUS1H102KC	CAP , CHIP	1000PF
C356	CCUS1H102KC	CAP , CHIP	1000PF
C357	CCUS1H102KC	CAP , CHIP	1000PF
C369	CCUS1H223KC	CAP , CHIP	0.022UF
C370	CCUS1H223KC	CAP , CHIP	0.022UF
C381	CCUS1H223KC	CAP , CHIP	0.022UF
C382	CCUS1H223KC	CAP , CHIP	0.022UF
C383	CCUS1H223KC	CAP , CHIP	0.022UF
C384	CCUS1H223KC	CAP , CHIP	0.022UF
C385	CCUS1H223KC	CAP , CHIP	0.022UF
C386	CCUS1H223KC	CAP , CHIP	0.022UF
C387	CCUS1H223KC	CAP , CHIP	0.022UF
C388	CCUS1H223KC	CAP , CHIP	0.022UF
C391	CCUS1H151JA	CAP , CHIP	150PF
C392	CCUS1H151JA	CAP , CHIP	150PF
C393	CCUS1H151JA	CAP , CHIP	150PF
C394	CCUS1H102KC	CAP , CHIP	1000PF
C395	CCUS1H151JA	CAP , CHIP	150PF
C396	CCUS1H151JA	CAP , CHIP	150PF
C397	CCUS1H151JA	CAP , CHIP	150PF

INPUT PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
C398	CCUS1H151JA	CAP , CHIP	150PF
C400	CCUS1H104KC	CAP , CHIP	0.1UF
C401	CCUS1H104KC	CAP , CHIP	0.1UF
C402	CCUS1H471JA	CAP , CHIP	470PF
C403	CCUS1H471JA	CAP , CHIP	470PF
C405	CCUC1C225ZF	CAP , CHIP(2.2UF/16V/2012)	2.2UF
C406	CCUC1C225ZF	CAP , CHIP(2.2UF/16V/2012)	2.2UF
C410	CCUS1A105KC	CAP , CHIP	1UF
C411	CCUS1A105KC	CAP , CHIP	1UF
C412	CCUS1H223KC	CAP , CHIP	0.022UF
C413	CCUS1H223KC	CAP , CHIP	0.022UF
C416	CCUS1H473KC	CAP , CHIP	0.047UF
C420	CCUS1A105KC	CAP , CHIP	1UF
C421	CCUS1A105KC	CAP , CHIP	1UF
C422	CCUS1A105KC	CAP , CHIP	1UF
C423	CCUS1H220JA	CAP , CHIP	22PF
C424	CCUS1H220JA	CAP , CHIP	22PF
C425	CCUS1H223KC	CAP , CHIP	0.022UF
C426	CCUS1H223KC	CAP , CHIP	0.022UF
C427	CCUS1H223KC	CAP , CHIP	0.022UF
C428	CCUS1H151JA	CAP , CHIP	150PF
C432	HCEC1CRV2220T	CAP , ELEC (SMD)	22UF/16V
C435	CCUS1H070DA	CAP , CHIP	7PF
C436	CCUS1H120JA	CAP , CHIP	12PF
C440	CCUS1H223KC	CAP , CHIP	0.022UF
C442	CCUS1H151JA	CAP , CHIP	150PF
C445	HCEC1CRV2220T	CAP , ELEC (SMD)	22UF/16V
C459	CCUS1H151JA	CAP , CHIP	150PF
C467	CCUS1A105KC	CAP , CHIP	1UF
C468	CCUS1A105KC	CAP , CHIP	1UF
C469	CCUS1A105KC	CAP , CHIP	1UF
C470	CCUS1A105KC	CAP , CHIP	1UF
C475	CCUS1H104KC	CAP , CHIP	0.1UF
C476	CCUS1H101JA	CAP , CHIP	100PF
C477	CCUS1H101JA	CAP , CHIP	100PF
C478	CCUS1A105KC	CAP , CHIP	1UF
C479	CCUS1A105KC	CAP , CHIP	1UF
C532	CCUS1H182KC	CAP , CHIP	1800PF
C534	CCUS1H182KC	CAP , CHIP	1800PF
C535	CCUS1H182KC	CAP , CHIP	1800PF
C536	CCUS1H182KC	CAP , CHIP	1800PF
C537	CCUS1H182KC	CAP , CHIP	1800PF
C538	CCUS1H182KC	CAP , CHIP	1800PF
C539	CCUS1H182KC	CAP , CHIP	1800PF

INPUT PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
C540	CCUS1H182KC	CAP , CHIP	1800PF
C601	CCUS1H104KC	CAP , CHIP	0.1UF
C603	CCUS1H104KC	CAP , CHIP	0.1UF
C605	CCUS1H104KC	CAP , CHIP	0.1UF
C607	CCUS1H104KC	CAP , CHIP	0.1UF
C609	CCUS1H104KC	CAP , CHIP	0.1UF
C611	CCUS1H104KC	CAP , CHIP	0.1UF
C613	CCUS1H104KC	CAP , CHIP	0.1UF
C615	CCUS1H104KC	CAP , CHIP	0.1UF
C617	CCUS1H104KC	CAP , CHIP	0.1UF
C619	CCUS1H104KC	CAP , CHIP	0.1UF
C621	CCUS1H104KC	CAP , CHIP	0.1UF
C623	CCUS1H104KC	CAP , CHIP	0.1UF
C625	CCUS1H104KC	CAP , CHIP	0.1UF
C627	CCUS1H104KC	CAP , CHIP	0.1UF
C629	CCUS1H104KC	CAP , CHIP	0.1UF
C631	CCUS1H104KC	CAP , CHIP	0.1UF
C701	CCUS1H150JA	CAP , CHIP	15PF
C702	CCUS1H150JA	CAP , CHIP	15PF
C704	CCUS1H104KC	CAP , CHIP	0.1UF
C705	CCUS1H104KC	CAP , CHIP	0.1UF
C707	CCUS1H102KC	CAP , CHIP	1000PF
C708	CCUS1H104KC	CAP , CHIP	0.1UF
C709	CCUS1H102KC	CAP , CHIP	1000PF
C711	CCUS1H102KC	CAP , CHIP	1000PF
C712	CCUS1H223KC	CAP , CHIP	0.022UF
C713	CCUS1H390JA	CAP , CHIP	39PF
C714	CCUS1H390JA	CAP , CHIP	39PF
C716	CCUS1H151JA	CAP , CHIP	150PF
C718	CCUS1H104KC	CAP , CHIP	0.1UF
C719	CCUS1H104KC	CAP , CHIP	0.1UF
C722	CCUS1H104KC	CAP , CHIP	0.1UF
C723	CCUS1H473KC	CAP , CHIP	0.047UF
C725	CCUS1H104KC	CAP , CHIP	0.1UF
C727	CCUS1H104KC	CAP , CHIP	0.1UF
C729	CCUS1H104KC	CAP , CHIP	0.1UF
C731	CCUS1H104KC	CAP , CHIP	0.1UF
C733	CCUS1H104KC	CAP , CHIP	0.1UF
C734	CCUS1H102KC	CAP , CHIP	1000PF
C735	CCUS1H470JA	CAP , CHIP	47PF
C738	CCUS1A105KC	CAP , CHIP	1UF
C739	CCUS1H103KC	CAP , CHIP	0.01UF
C741	CCUS1H104KC	CAP , CHIP	0.1UF
C742	CCUS1H180JA	CAP , CHIP	18PF

INPUT PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
C743	CCUS1H104KC	CAP , CHIP	0.1UF
C744	CCUS1H180JA	CAP , CHIP	18PF
C745	CCUS1H104KC	CAP , CHIP	0.1UF
C746	CCUS1H104KC	CAP , CHIP	0.1UF
C747	CCUS1H104KC	CAP , CHIP	0.1UF
C748	CCUS1H104KC	CAP , CHIP	0.1UF
C751	CCUS1H104KC	CAP , CHIP	0.1UF
C754	CCUS1H104KC	CAP , CHIP	0.1UF
C755	CCUS1H561JA	CAP , CHIP	560PF
C756	CCUS1H104KC	CAP , CHIP	0.1UF
C757	CCUS1H104KC	CAP , CHIP	0.1UF
C758	CCUS1H104KC	CAP , CHIP	0.1UF
C759	CCUS1H104KC	CAP , CHIP	0.1UF
C760	CCUS1H104KC	CAP , CHIP	0.1UF
C761	CCUS1H104KC	CAP , CHIP	0.1UF
C762	CCUS1H104KC	CAP , CHIP	0.1UF
C763	CCUS1H104KC	CAP , CHIP	0.1UF
C765	CCUS1H104KC	CAP , CHIP	0.1UF
C768	CCUS1H104KC	CAP , CHIP	0.1UF
C769	CCUS1H104KC	CAP , CHIP	0.1UF
C770	CCUS1H104KC	CAP , CHIP	0.1UF
C771	CCUS1H104KC	CAP , CHIP	0.1UF
C772	CCUS1H104KC	CAP , CHIP	0.1UF
C773	CCUS1H104KC	CAP , CHIP	0.1UF
C780	CCUS1H102KC	CAP , CHIP	1000PF
C781	CCUS1H223KC	CAP , CHIP	0.022UF
C782	CCUS1H103KC	CAP , CHIP	0.01UF
C783	CCUS1H103KC	CAP , CHIP	0.01UF
C784	CCUS1H103KC	CAP , CHIP	0.01UF
C785	CCUS1H103KC	CAP , CHIP	0.01UF
C786	CCUS1H103KC	CAP , CHIP	0.01UF
C787	CCUS1H103KC	CAP , CHIP	0.01UF
C789	CCUS1H103KC	CAP , CHIP	0.01UF
C790	CCUS1H103KC	CAP , CHIP	0.01UF
C791	CCUS1H104KC	CAP , CHIP	0.1UF
C792	CCUS1H104KC	CAP , CHIP	0.1UF
C902	CCUS1H223KC	CAP , CHIP	0.022UF
C903	CCUS1H223KC	CAP , CHIP	0.022UF
C904	CCUS1H223KC	CAP , CHIP	0.022UF
C952	CCUS1H223KC	CAP , CHIP	0.022UF
D201	HVD1SS355T	DIODE , CHIP	1SS355T
D202	HVD1SS355T	DIODE , CHIP	1SS355T
D203	HVD1SS355T	DIODE , CHIP	1SS355T
D204	HVD1SS355T	DIODE , CHIP	1SS355T

INPUT PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
D205	HVD1SS355T	DIODE , CHIP	1SS355T
D206	HVD1SS355T	DIODE , CHIP	1SS355T
D207	HVD1SS355T	DIODE , CHIP	1SS355T
D208	HVD1SS355T	DIODE , CHIP	1SS355T
D209	HVD1SS355T	DIODE , CHIP	1SS355T
D210	HVD1SS355T	DIODE , CHIP	1SS355T
D211	HVD1SS355T	DIODE , CHIP	1SS355T
D212	HVD1SS355T	DIODE , CHIP	1SS355T
D213	HVD1SS355T	DIODE , CHIP	1SS355T
D214	HVD1SS355T	DIODE , CHIP	1SS355T
D215	HVD1SS355T	DIODE , CHIP	1SS355T
D216	HVD1SS355T	DIODE , CHIP	1SS355T
D400	CVD1SS355T	DIODE , CHIP	1SS355T
D401	CVD1SS355T	DIODE , CHIP	1SS355T
D475	HVD1SS355T	DIODE , CHIP	1SS355T
D701	HVDRLS4148SR	DIODE, SWITCHING, SMD TYPE	RLS4148 TE-11
D725	HVD1SS355T	DIODE , CHIP	1SS355T
D727	HVD1SS355T	DIODE , CHIP	1SS355T
IC20	CVINJW1197FC2	I.C , SW(WITH VOLUME)	JRC
IC21	HVINJM2068MDTE1	I.C , OP AMP	JRC
IC22	HVINJM2068MDTE1	I.C , OP AMP	JRC
IC23	HVINJM2068MDTE1	I.C , OP AMP	JRC
IC24	HVINJM2068MDTE1	I.C , OP AMP	JRC
IC25	HVINJM2068MDTE1	I.C , OP AMP	JRC
IC31	HVINJM2068MDTE1	I.C , OP AMP	JRC
IC32	HVINJM2068MDTE1	I.C , OP AMP	JRC
IC33	HVINJM2068MDTE1	I.C , OP AMP	JRC
IC34	HVINJM2068MDTE1	I.C , OP AMP	JRC
IC41	HVINJM2068MDTE1	I.C , OP AMP	JRC
IC42	HVINJM2068MDTE1	I.C , OP AMP	JRC
IC43	HVINJM2137MTE1	I.C , OP AMP	JRC
IC44	HVINJW1159M	I.C , VOLUME (2-CH)	JRC
IC45	HVINJM2068MDTE1	I.C , OP AMP	JRC
IC50	HVINJM2068MDTE1	I.C , OP AMP	JRC
IC70	HVITC74VHC157FT	I.C, 2-CHANNEL MUX	ST
IC71	HVITC74VHC157FT	I.C, 2-CHANNEL MUX	ST
IC72	HVI74HCU04AFNG	I.C , HEX INVERTER	TOSHIBA
IC73	HVICS42528-CQ	I.C , CODEC + DIR	CIRRUS LOGIC
IC74	HVILC72723M	IC , PLL (RDS)	SANYO
IC75	CVICS49510-CQ	I.C , DSP	CIRRUS LOGIC
IC76	CVIES29LV800ET70	IC , FLASH MEMORY (8Mbit)	EXCELSEMI
IC77	HVI57V161610ET7	SDRAM 16M 7NS	HYNIX
IC78	HVINJM2391DL133	I.C , CHIP REGULATOR (+3.3)	JRC
IC79	HVILM1117S-1V8	I.C , REGULATOR (1.8V)	HTC

INPUT PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
IC88	HVILM1117S-3V3	I.C , REGULATOR (3.3V)	HTC
IC89	CVIM24C32WMN6TP	I.C , EEPROM (32 Kbit)	ST
IC90	CVIT5CC1	I.C , FLASH U-COM	TOSHIBA
IC91	HVI74ACT04MTR	I.C , HEX INVERTER	TOSHIBA
JK40	HJJ9L003Z	JACK , IPOD	IPOD JACK
L701	HLZ9Z014Z	CHIP , BEAD	HU-1H4516-600JT
L702	HLZ9Z014Z	CHIP , BEAD	HU-1H4516-600JT
L703	HLZ9Z014Z	CHIP , BEAD	HU-1H4516-600JT
L704	HLZ9R005Z	BEAD CHIP 60(1608 SIZE)	HH-1M1608-600
L705	HLZ9R005Z	BEAD CHIP 60(1608 SIZE)	HH-1M1608-600
Q402	HVTKRC102S	TR , CHIP	KRC102S
Q729	HVTKRC107S	T.R , CHIP	KRC107S
Q730	HVTKRC107S	T.R , CHIP	KRC107S
Q732	HVTKRC107S	T.R , CHIP	KRC107S
Q734	HVTKRC107S	T.R , CHIP	KRC107S
Q735	HVTKRA107S	TR, CHIP	KRC107S
Q736	HVTKRA107S	TR, CHIP	KRC107S
RN61	CRJ104DJ103T	RES , 4ARRAY (1608*4)	10K OHM/1608*4
RN62	CRJ104DJ103T	RES , 4ARRAY (1608*4)	10K OHM/1608*4
RN63	CRJ104DJ103T	RES , 4ARRAY (1608*4)	10K OHM/1608*4
RN64	CRJ104DJ101T	RES , 4ARRAY (1608*4)	100 OHM/1608*4
RN65	CRJ104DJ101T	RES , 4ARRAY (1608*4)	100 OHM/1608*4
RN66	CRJ104DJ101T	RES , 4ARRAY (1608*4)	100 OHM/1608*4
RN71	CRJ104DJ103T	RES , 4ARRAY (1608*4)	10K OHM/1608*4
RN72	CRJ104DJ103T	RES , 4ARRAY (1608*4)	10K OHM/1608*4
RN73	CRJ104DJ103T	RES , 4ARRAY (1608*4)	10K OHM/1608*4
RN74	CRJ104DJ330T	RES , 4ARRAY (1608*4)	33 OHM/1608*4
RN75	CRJ104DJ330T	RES , 4ARRAY (1608*4)	33 OHM/1608*4
RN76	CRJ104DJ330T	RES , 4ARRAY (1608*4)	33 OHM/1608*4
RN77	CRJ104DJ330T	RES , 4ARRAY (1608*4)	33 OHM/1608*4
RN78	CRJ104DJ330T	RES , 4ARRAY (1608*4)	33 OHM/1608*4
RN79	CRJ104DJ330T	RES , 4ARRAY (1608*4)	33 OHM/1608*4
RN80	CRJ104DJ330T	RES , 4ARRAY (1608*4)	33 OHM/1608*4
RN81	CRJ104DJ330T	RES , 4ARRAY (1608*4)	33 OHM/1608*4
RN82	CRJ104DJ330T	RES , 4ARRAY (1608*4)	33 OHM/1608*4
RN83	CRJ104DJ330T	RES , 4ARRAY (1608*4)	33 OHM/1608*4
RN84	CRJ104DJ330T	RES , 4ARRAY (1608*4)	33 OHM/1608*4
RN85	CRJ104DJ330T	RES , 4ARRAY (1608*4)	33 OHM/1608*4
RN86	CRJ104DJ103T	RES , 4ARRAY (1608*4)	10K OHM/1608*4
RN87	CRJ104DJ330T	RES , 4ARRAY (1608*4)	33 OHM/1608*4
RN88	CRJ104DJ103T	RES , 4ARRAY (1608*4)	10K OHM/1608*4
RN89	CRJ104DJ103T	RES , 4ARRAY (1608*4)	10K OHM/1608*4
RN90	CRJ104DJ330T	RES , 4ARRAY (1608*4)	33 OHM/1608*4
RN91	CRJ104DJ330T	RES , 4ARRAY (1608*4)	33 OHM/1608*4

INPUT PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
RN92	CRJ104DJ101T	RES , 4ARRAY (1608*4)	100 OHM/1608*4
R201	CRJ10DJ101T	RES , CHIP	100 OHM
R202	CRJ10DJ101T	RES , CHIP	100 OHM
R203	CRJ10DJ101T	RES , CHIP	100 OHM
R204	CRJ10DJ101T	RES , CHIP	100 OHM
R205	CRJ10DJ101T	RES , CHIP	100 OHM
R206	CRJ10DJ101T	RES , CHIP	100 OHM
R207	CRJ10DJ101T	RES , CHIP	100 OHM
R208	CRJ10DJ101T	RES , CHIP	100 OHM
R209	CRJ10DJ101T	RES , CHIP	100 OHM
R210	CRJ10DJ101T	RES , CHIP	100 OHM
R211	CRJ10DJ101T	RES , CHIP	100 OHM
R212	CRJ10DJ101T	RES , CHIP	100 OHM
R213	CRJ10DJ101T	RES , CHIP	100 OHM
R214	CRJ10DJ101T	RES , CHIP	100 OHM
R215	CRJ10DJ101T	RES , CHIP	100 OHM
R216	CRJ10DJ101T	RES , CHIP	100 OHM
R219	CRJ10DJ101T	RES , CHIP	100 OHM
R220	CRJ10DJ101T	RES , CHIP	100 OHM
R221	CRJ10DJ101T	RES , CHIP	100 OHM
R222	CRJ10DJ101T	RES , CHIP	100 OHM
R223	CRJ10DJ101T	RES , CHIP	100 OHM
R224	CRJ10DJ272T	RES , CHIP	2.7K OHM
R225	CRJ10DJ101T	RES , CHIP	100 OHM
R226	CRJ10DJ101T	RES , CHIP	100 OHM
R227	CRJ10DJ474T	RES , CHIP	470K OHM
R228	CRJ10DJ474T	RES , CHIP	470K OHM
R229	CRJ10DJ474T	RES , CHIP	470K OHM
R230	CRJ10DJ474T	RES , CHIP	470K OHM
R231	CRJ10DJ474T	RES , CHIP	470K OHM
R232	CRJ10DJ474T	RES , CHIP	470K OHM
R233	CRJ10DJ474T	RES , CHIP	470K OHM
R234	CRJ10DJ474T	RES , CHIP	470K OHM
R235	CRJ10DJ474T	RES , CHIP	470K OHM
R236	CRJ10DJ474T	RES , CHIP	470K OHM
R237	CRJ10DJ474T	RES , CHIP	470K OHM
R238	CRJ10DJ474T	RES , CHIP	470K OHM
R239	CRJ10DJ474T	RES , CHIP	470K OHM
R240	CRJ10DJ474T	RES , CHIP	470K OHM
R241	CRJ10DJ474T	RES , CHIP	470K OHM
R242	CRJ10DJ474T	RES , CHIP	470K OHM
R245	CRJ10DJ474T	RES , CHIP	470K OHM
R246	CRJ10DJ474T	RES , CHIP	470K OHM
R247	CRJ10DJ474T	RES , CHIP	470K OHM

INPUT PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
R248	CRJ10DJ474T	RES , CHIP	470K OHM
R249	CRJ10DJ474T	RES , CHIP	470K OHM
R250	CRJ10DJ103T	RES , CHIP	10K OHM
R251	CRJ10DJ474T	RES , CHIP	470K OHM
R252	CRJ10DJ474T	RES , CHIP	470K OHM
R253	CRJ10DJ4R7T	RES , CHIP	4.7 OHM
R254	CRJ10DJ4R7T	RES , CHIP	4.7 OHM
R255	CRJ10DJ4R7T	RES , CHIP	4.7 OHM
R256	CRJ10DJ4R7T	RES , CHIP	4.7 OHM
R257	CRJ10DJ4R7T	RES , CHIP	4.7 OHM
R258	CRJ10DJ4R7T	RES , CHIP	4.7 OHM
R259	CRJ10DJ4R7T	RES , CHIP	4.7 OHM
R260	CRJ10DJ4R7T	RES , CHIP	4.7 OHM
R261	CRJ10DJ184T	RES , CHIP	180K OHM
R262	CRJ10DJ184T	RES , CHIP	180K OHM
R263	CRJ10DJ184T	RES , CHIP	180K OHM
R264	CRJ10DJ184T	RES , CHIP	180K OHM
R265	CRJ10DJ184T	RES , CHIP	180K OHM
R266	CRJ10DJ184T	RES , CHIP	180K OHM
R267	CRJ10DJ184T	RES , CHIP	180K OHM
R268	CRJ10DJ184T	RES , CHIP	180K OHM
R271	CRJ10DJ102T	RES , CHIP	1K OHM
R272	CRJ10DJ102T	RES , CHIP	1K OHM
R273	CRJ10DJ102T	RES , CHIP	1K OHM
R274	CRJ10DJ102T	RES , CHIP	1K OHM
R275	CRJ10DJ102T	RES , CHIP	1K OHM
R276	CRJ10DJ102T	RES , CHIP	1K OHM
R277	CRJ10DJ102T	RES , CHIP	1K OHM
R278	CRJ10DJ102T	RES , CHIP	1K OHM
R279	CRJ10DJ101T	RES , CHIP	100 OHM
R280	CRJ10DJ101T	RES , CHIP	100 OHM
R281	CRJ10DJ512T	RES , CHIP	5.1K OHM
R282	CRJ10DJ512T	RES , CHIP	5.1K OHM
R283	CRJ10DJ512T	RES , CHIP	5.1K OHM
R284	CRJ10DJ912T	RES , CHIP	9.1K OHM
R285	CRJ10DJ512T	RES , CHIP	5.1K OHM
R286	CRJ10DJ512T	RES , CHIP	5.1K OHM
R287	CRJ10DJ512T	RES , CHIP	5.1K OHM
R288	CRJ10DJ512T	RES , CHIP	5.1K OHM
R289	CRJ10DJ101T	RES , CHIP	100 OHM
R290	CRJ10DJ101T	RES , CHIP	100 OHM
R291	CRJ10DJ184T	RES , CHIP	180K OHM
R292	CRJ10DJ184T	RES , CHIP	180K OHM
R293	CRJ10DJ184T	RES , CHIP	180K OHM

INPUT PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
R294	CRJ10DJ184T	RES , CHIP	180K OHM
R295	CRJ10DJ184T	RES , CHIP	180K OHM
R296	CRJ10DJ184T	RES , CHIP	180K OHM
R297	CRJ10DJ184T	RES , CHIP	180K OHM
R298	CRJ10DJ184T	RES , CHIP	180K OHM
R301	CRJ10DJ122T	RES , CHIP	1.2K OHM
R302	CRJ10DJ122T	RES , CHIP	1.2K OHM
R303	CRJ10DJ122T	RES , CHIP	1.2K OHM
R304	CRJ10DJ122T	RES , CHIP	1.2K OHM
R305	CRJ10DJ272T	RES , CHIP	2.7K OHM
R306	CRJ10DJ272T	RES , CHIP	2.7K OHM
R307	CRJ10DJ272T	RES , CHIP	2.7K OHM
R308	CRJ10DJ272T	RES , CHIP	2.7K OHM
R309	CRJ10DJ272T	RES , CHIP	2.7K OHM
R310	CRJ10DJ272T	RES , CHIP	2.7K OHM
R311	CRJ10DJ272T	RES , CHIP	2.7K OHM
R312	CRJ10DJ272T	RES , CHIP	2.7K OHM
R313	CRJ10DJ272T	RES , CHIP	2.7K OHM
R314	CRJ10DJ272T	RES , CHIP	2.7K OHM
R315	CRJ10DJ272T	RES , CHIP	2.7K OHM
R316	CRJ10DJ272T	RES , CHIP	2.7K OHM
R317	CRJ10DJ561T	RES , CHIP	560 OHM
R318	CRJ10DF3920T	RES. CHIP (392R 1%)	392 OHM
R321	CRJ10DJ512T	RES , CHIP	5.1K OHM
R322	CRJ10DJ821T	RES , CHIP	820 OHM
R323	CRJ10DJ821T	RES , CHIP	820 OHM
R324	CRJ10DJ512T	RES , CHIP	5.1K OHM
R325	CRJ10DJ512T	RES , CHIP	5.1K OHM
R326	CRJ10DJ821T	RES , CHIP	820 OHM
R327	CRJ10DJ821T	RES , CHIP	820 OHM
R328	CRJ10DJ103T	RES , CHIP	10K OHM
R329	CRJ10DJ512T	RES , CHIP	5.1K OHM
R330	CRJ10DJ821T	RES , CHIP	820 OHM
R331	CRJ10DJ821T	RES , CHIP	820 OHM
R332	CRJ10DJ512T	RES , CHIP	5.1K OHM
R333	CRJ10DJ512T	RES , CHIP	5.1K OHM
R334	CRJ10DJ821T	RES , CHIP	820 OHM
R335	CRJ10DJ821T	RES , CHIP	820 OHM
R336	CRJ10DJ512T	RES , CHIP	5.1K OHM
R341	CRJ10DJ821T	RES , CHIP	820 OHM
R344	CRJ10DJ821T	RES , CHIP	820 OHM
R345	CRJ10DJ821T	RES , CHIP	820 OHM
R348	CRJ10DJ821T	RES , CHIP	820 OHM
R349	CRJ10DJ821T	RES , CHIP	820 OHM

INPUT PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
R352	CRJ10DJ821T	RES , CHIP	820 OHM
R353	CRJ10DJ821T	RES , CHIP	820 OHM
R356	CRJ10DJ821T	RES , CHIP	820 OHM
R361	CRJ10DJ104T	RES , CHIP	100K OHM
R362	CRJ10DJ104T	RES , CHIP	100K OHM
R363	CRJ10DJ104T	RES , CHIP	100K OHM
R364	CRJ10DJ104T	RES , CHIP	100K OHM
R365	CRJ10DJ104T	RES , CHIP	100K OHM
R366	CRJ10DJ104T	RES , CHIP	100K OHM
R367	CRJ10DJ104T	RES , CHIP	100K OHM
R368	CRJ10DJ104T	RES , CHIP	100K OHM
R371	CRJ10DJ512T	RES , CHIP	5.1K OHM
R372	CRJ10DJ512T	RES , CHIP	5.1K OHM
R373	CRJ10DJ512T	RES , CHIP	5.1K OHM
R374	CRJ10DJ103T	RES , CHIP	10K OHM
R375	CRJ10DJ512T	RES , CHIP	5.1K OHM
R376	CRJ10DJ512T	RES , CHIP	5.1K OHM
R377	CRJ10DJ512T	RES , CHIP	5.1K OHM
R378	CRJ10DJ512T	RES , CHIP	5.1K OHM
R381	CRJ10DJ561T	RES , CHIP	560 OHM
R382	CRJ10DJ561T	RES , CHIP	560 OHM
R383	CRJ10DJ561T	RES , CHIP	560 OHM
R384	CRJ10DJ561T	RES , CHIP	560 OHM
R385	CRJ10DJ561T	RES , CHIP	560 OHM
R386	CRJ10DJ561T	RES , CHIP	560 OHM
R387	CRJ10DJ561T	RES , CHIP	560 OHM
R388	CRJ10DJ561T	RES , CHIP	560 OHM
R389	CRJ10DJ184T	RES , CHIP	180K OHM
R390	CRJ10DJ184T	RES , CHIP	180K OHM
R391	CRJ10DF3920T	RES. CHIP (392R 1%)	392 OHM
R392	CRJ10DF3920T	RES. CHIP (392R 1%)	392 OHM
R393	CRJ10DF3920T	RES. CHIP (392R 1%)	392 OHM
R394	CRJ10DF3920T	RES. CHIP (392R 1%)	392 OHM
R395	CRJ10DF3920T	RES. CHIP (392R 1%)	392 OHM
R396	CRJ10DF3920T	RES. CHIP (392R 1%)	392 OHM
R397	CRJ10DF3920T	RES. CHIP (392R 1%)	392 OHM
R398	CRJ10DF3920T	RES. CHIP (392R 1%)	392 OHM
R400	CRJ10DJ4R7T	RES , CHIP	4.7 OHM
R401	CRJ10DJ4R7T	RES , CHIP	4.7 OHM
R402	CRJ10DF5493T	RES , CHIP 549KOHM/1608/1%	543K OHM
R403	CRJ10DJ0R0T	RES , CHIP	0 OHM
R404	CRJ10DJ103T	RES , CHIP	10K OHM
R405	CRJ10DJ103T	RES , CHIP	10K OHM
R406	CRJ10DJ474T	RES , CHIP	470K OHM

INPUT PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
R407	CRJ10DJ474T	RES , CHIP	470K OHM
R421	CRJ10DJ222T	RES , CHIP	2.2K OHM
R422	CRJ10DJ474T	RES , CHIP	470K OHM
R430	CRJ10DJ473T	RES , CHIP	47K OHM
R431	CRJ10DJ473T	RES , CHIP	47K OHM
R432	CRJ18AJ221T	RES , CHIP	220 OHM
R433	CRJ18AJ221T	RES , CHIP	220 OHM
R434	CRJ10DJ103T	RES , CHIP	10K OHM
R435	CRJ10DJ103T	RES , CHIP	10K OHM
R436	CRJ10DJ222T	RES , CHIP	2.2K OHM
R437	CRJ10DJ222T	RES , CHIP	2.2K OHM
R438	CRJ10DJ222T	RES , CHIP	2.2K OHM
R439	CRJ10DJ222T	RES , CHIP	2.2K OHM
R440	CRJ10DJ220T	RES , CHIP	22 OHM
R441	CRJ10DJ472T	RES , CHIP	4.7K OHM
R442	CRJ10DJ472T	RES , CHIP	4.7K OHM
R443	CRJ10DJ202T	RES , CHIP	2K OHM
R445	CRJ10DJ202T	RES , CHIP	2K OHM
R446	CRJ10DJ431T	RES , CHIP	430 OHM
R447	CRJ10DJ821T	RES , CHIP	820 OHM
R448	CRJ10DJ184T	RES , CHIP	180K OHM
R449	CRJ10DJ0R0T	RES , CHIP	0 OHM
R452	CRJ10DJ184T	RES , CHIP	180K OHM
R453	CRJ10DJ220T	RES , CHIP	22 OHM
R454	CRJ10DJ562T	RES , CHIP	5.6K OHM
R455	CRJ10DJ122T	RES , CHIP	1.2K OHM
R456	CRJ10DJ562T	RES , CHIP	5.6K OHM
R457	CRJ10DJ821T	RES , CHIP	820 OHM
R458	CRJ10DJ821T	RES , CHIP	820 OHM
R460	CRJ10DJ184T	RES , CHIP	180K OHM
R461	CRJ10DJ104T	RES , CHIP	100K OHM
R462	CRJ10DJ104T	RES , CHIP	100K OHM
R463	CRJ10DJ821T	RES , CHIP	820 OHM
R464	CRJ10DJ821T	RES , CHIP	820 OHM
R465	CRJ10DJ472T	RES , CHIP	4.7K OHM
R466	CRJ10DJ472T	RES , CHIP	4.7K OHM
R467	CRJ10DJ472T	RES , CHIP	4.7K OHM
R468	CRJ10DJ472T	RES , CHIP	4.7K OHM
R469	CRJ10DJ184T	RES , CHIP	180K OHM
R470	CRJ10DJ184T	RES , CHIP	180K OHM
R471	CRJ10DJ101T	RES , CHIP	100 OHM
R472	CRJ10DJ101T	RES , CHIP	100 OHM
R473	CRJ10DJ184T	RES , CHIP	180K OHM
R474	CRJ10DJ122T	RES , CHIP	1.2K OHM

INPUT PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
R475	CRJ10DJ4R7T	RES , CHIP	4.7 OHM
R476	CRJ10DJ101T	RES , CHIP	100 OHM
R477	CRJ10DJ101T	RES , CHIP	100 OHM
R478	CRJ10DJ562T	RES , CHIP	5.6K OHM
R479	CRJ10DJ562T	RES , CHIP	5.6K OHM
R480	CRJ10DJ102T	RES , CHIP	1K OHM
R489	CRJ10DJ332T	RES , CHIP	3.3K OHM
R490	CRJ10DJ332T	RES , CHIP	3.3K OHM
R499	CRJ10DJ102T	RES , CHIP	1K OHM
R531	CRJ10DJ152T	RES , CHIP	1.5K OHM
R532	CRJ10DJ152T	RES , CHIP	1.5K OHM
R533	CRJ10DJ152T	RES , CHIP	1.5K OHM
R534	CRJ10DJ152T	RES , CHIP	1.5K OHM
R701	CRJ10DJ103T	RES , CHIP	10K OHM
R702	CRJ10DJ103T	RES , CHIP	10K OHM
R703	CRJ10DJ103T	RES , CHIP	10K OHM
R706	CRJ10DJ222T	RES , CHIP	10K OHM
R707	CRJ10DJ222T	RES , CHIP	10K OHM
R708	CRJ10DJ101T	RES , CHIP	100 OHM
R709	CRJ10DJ103T	RES , CHIP	10K OHM
R710	CRJ10DJ103T	RES , CHIP	10K OHM
R711	CRJ10DJ101T	RES , CHIP	10K OHM
R712	CRJ10DJ820T	RES , CHIP	82 OHM
R713	CRJ10DJ101T	RES , CHIP	10K OHM
R714	CRJ10DJ104T	RES , CHIP	100K OHM
R715	CRJ10DJ104T	RES , CHIP	100K OHM
R716	CRJ10DJ472T	RES , CHIP	4.7K OHM
R717	CRJ10DJ0R0T	RES , CHIP	0 OHM
R718	CRJ10DJ332T	RES , CHIP	3.3K OHM
R719	CRJ10DJ0R0T	RES , CHIP	0 OHM
R720	CRJ10DJ0R0T	RES , CHIP	0 OHM
R721	CRJ10DJ330T	RES , CHIP	33 OHM
R724	CRJ10DJ101T	RES , CHIP	10K OHM
R725	CRJ10DJ0R0T	RES , CHIP	0 OHM
R726	CRJ10DJ100T	RES , CHIP	10 OHM
R727	CRJ10DJ0R0T	RES , CHIP	0 OHM
R728	CRJ10DJ102T	RES , CHIP	1K OHM
R729	CRJ10DJ102T	RES , CHIP	1K OHM
R730	CRJ10DJ102T	RES , CHIP	1K OHM
R731	CRJ10DJ102T	RES , CHIP	1K OHM
R737	CRJ10DJ330T	RES , CHIP	33 OHM
R738	CRJ10DJ103T	RES , CHIP	10K OHM
R739	CRJ10DJ1R0T	RES , CHIP	1 OHM
R740	CRJ10DJ820T	RES , CHIP	82 OHM

INPUT PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
R741	CRJ10DJ330T	RES , CHIP	33 OHM
R742	CRJ10DJ330T	RES , CHIP	33 OHM
R743	CRJ10DJ330T	RES , CHIP	33 OHM
R744	CRJ10DJ0R0T	RES , CHIP	0 OHM
R747	CRJ10DJ330T	RES , CHIP	33 OHM
R748	CRJ10DJ330T	RES , CHIP	33 OHM
R751	CRJ10DJ111T	RES , CHIP	110 OHM
R752	CRJ10DJ101T	RES , CHIP	100 OHM
R753	CRJ10DJ103T	RES , CHIP	10K OHM
R754	CRJ10DJ103T	RES , CHIP	10K OHM
R756	CRJ10DJ103T	RES , CHIP	10K OHM
R759	CRJ10DJ101T	RES , CHIP	100 OHM
R760	CRJ10DJ105T	RES , CHIP	1M OHM
R761	CRJ10DJ102T	RES , CHIP	1K OHM
R762	CRJ10DJ102T	RES , CHIP	1K OHM
R763	CRJ10DJ472T	RES , CHIP	4.7K OHM
R765	CRJ10DJ103T	RES , CHIP	10K OHM
R766	CRJ10DJ103T	RES , CHIP	10K OHM
R767	CRJ10DJ301T	RES , CHIP	300 OHM
R768	CRJ10DJ562T	RES , CHIP	5.6K OHM
R770	CRJ10DJ100T	RES , CHIP	10 OHM
R771	CRJ10DJ103T	RES , CHIP	10K OHM
R772	CRJ10DJ473T	RES , CHIP	47K OHM
R773	CRJ10DJ332T	RES , CHIP	3.3K OHM
R774	CRJ10DJ332T	RES , CHIP	3.3K OHM
R775	CRJ10DJ332T	RES , CHIP	3.3K OHM
R776	CRJ10DJ332T	RES , CHIP	3.3K OHM
R777	CRJ10DJ102T	RES , CHIP	1K OHM
R778	CRJ10DJ103T	RES , CHIP	10K OHM
R779	CRJ10DJ103T	RES , CHIP	10K OHM
R780	CRJ10DJ103T	RES , CHIP	10K OHM
R781	CRJ10DJ103T	RES , CHIP	10K OHM
R782	CRJ10DJ272T	RES , CHIP	2.7K OHM
R783	CRJ10DJ272T	RES , CHIP	2.7K OHM
R784	CRJ10DJ473T	RES , CHIP	47K OHM
R785	CRJ10DJ104T	RES , CHIP	100K OHM
R786	CRJ10DJ471T	RES , CHIP	470 OHM
R787	CRJ10DJ103T	RES , CHIP	10K OHM
R788	CRJ10DJ103T	RES , CHIP	10K OHM
R789	CRJ10DJ103T	RES , CHIP	10K OHM
R790	CRJ10DJ103T	RES , CHIP	10K OHM
R792	CRJ10DJ103T	RES , CHIP	10K OHM
R794	CRJ10DJ102T	RES , CHIP	1K OHM
R795	CRJ10DJ103T	RES , CHIP	10K OHM

INPUT PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
R796	CRJ10DJ101T	RES , CHIP	100 OHM
R797	CRJ10DJ1R0T	RES , CHIP	1 OHM
R799	CRJ10DJ103T	RES , CHIP	10K OHM
X702	HOX27000E180S	CRYSTAL , CHIP(27MHZ,SMD)	27MHz
C261	CCEA1EH470T	CAP , ELECT	47UF 25V
C262	CCEA1EH470T	CAP , ELECT	47UF 25V
C263	CCEA1EH470T	CAP , ELECT	47UF 25V
C264	CCEA1EH470T	CAP , ELECT	47UF 25V
C265	CCEA1EH470T	CAP , ELECT	47UF 25V
C266	CCEA1EH470T	CAP , ELECT	47UF 25V
C267	CCEA1EH470T	CAP , ELECT	47UF 25V
C268	CCEA1EH470T	CAP , ELECT	47UF 25V
C270	CCEA1HH100T	CAP , ELECT	10UF 50V
C271	CCEA1HH100T	CAP , ELECT	10UF 50V
C272	CCEA1HH100T	CAP , ELECT	10UF 50V
C273	CCEA1HH100T	CAP , ELECT	10UF 50V
C275	CCEA1HH100T	CAP , ELECT	10UF 50V
C276	CCEA1HH100T	CAP , ELECT	10UF 50V
C281	CCEA1HH100T	CAP , ELECT	10UF 50V
C282	CCEA1HH100T	CAP , ELECT	10UF 50V
C283	CCEA1HH100T	CAP , ELECT	10UF 50V
C284	CCEA1HH100T	CAP , ELECT	10UF 50V
C285	CCEA1HH100T	CAP , ELECT	10UF 50V
C286	CCEA1HH100T	CAP , ELECT	10UF 50V
C287	CCEA1HH100T	CAP , ELECT	10UF 50V
C288	CCEA1HH100T	CAP , ELECT	10UF 50V
C292	CCEA1CH101T	CAP , ELECT	100UF 16V
C294	CCEA1CH101T	CAP , ELECT	100UF 16V
C341	CCEA1HH100T	CAP , ELECT	10UF 50V
C342	CCEA1HH100T	CAP , ELECT	10UF 50V
C343	CCEA1HH100T	CAP , ELECT	10UF 50V
C344	CCEA1HH100T	CAP , ELECT	10UF 50V
C345	CCEA1HH100T	CAP , ELECT	10UF 50V
C346	CCEA1HH100T	CAP , ELECT	10UF 50V
C347	CCEA1HH100T	CAP , ELECT	10UF 50V
C348	CCEA1HH100T	CAP , ELECT	10UF 50V
C349	CCEA1CH101T	CAP , ELECT	100UF 16V
C358	CCEA1CH101T	CAP , ELECT	100UF 16V
C359	CCEA1CH101T	CAP , ELECT	100UF 16V
C360	CCEA1CH101T	CAP , ELECT	100UF 16V
C371	CCEA1HH100T	CAP , ELECT	10UF 50V
C372	CCEA1HH100T	CAP , ELECT	10UF 50V
C373	CCEA1HH100T	CAP , ELECT	10UF 50V
C374	CCEA1HH100T	CAP , ELECT	10UF 50V

INPUT PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
C375	CCEA1HH100T	CAP , ELECT	10UF 50V
C376	CCEA1HH100T	CAP , ELECT	10UF 50V
C377	CCEA1HH100T	CAP , ELECT	10UF 50V
C378	CCEA1HH100T	CAP , ELECT	10UF 50V
C389	CCEA1HH100T	CAP , ELECT	10UF 50V
C390	CCEA1HH100T	CAP , ELECT	10UF 50V
C414	CCEA1HH100T	CAP , ELECT	10UF 50V
C415	CCEA1HH100T	CAP , ELECT	10UF 50V
C417	CCEA1CH471T	CAP , ELECT	470UF 16V
C430	CCEA1AH331T	CAP , ELECT	330UF 10V
C431	CCEA1CH221T	CAP , ELECT	220UF 16V
C433	CCEA1CH101T	CAP , ELECT	100UF 16V
C441	CCEA1CH101T	CAP , ELECT	100UF 16V
C443	CCEA1HH100T	CAP , ELECT	10UF 50V
C444	CCEA1HH100T	CAP , ELECT	10UF 50V
C446	CCEA1CH101T	CAP , ELECT	100UF 16V
C447	CCEA1HH100T	CAP , ELECT	10UF 50V
C449	CCEA1CH101T	CAP , ELECT	100UF 16V
C452	CCEA1HH100T	CAP , ELECT	10UF 50V
C453	CCEA1HH100T	CAP , ELECT	10UF 50V
C454	CCEA1CH101T	CAP , ELECT	100UF 16V
C600	CCEA1CH101T	CAP , ELECT	100UF 16V
C602	CCEA1CH101T	CAP , ELECT	100UF 16V
C604	CCEA1CH101T	CAP , ELECT	100UF 16V
C606	CCEA1CH101T	CAP , ELECT	100UF 16V
C608	CCEA1CH101T	CAP , ELECT	100UF 16V
C610	CCEA1CH101T	CAP , ELECT	100UF 16V
C612	CCEA1CH101T	CAP , ELECT	100UF 16V
C614	CCEA1CH101T	CAP , ELECT	100UF 16V
C616	CCEA1CH101T	CAP , ELECT	100UF 16V
C618	CCEA1CH101T	CAP , ELECT	100UF 16V
C620	CCEA1CH101T	CAP , ELECT	100UF 16V
C622	CCEA1CH101T	CAP , ELECT	100UF 16V
C624	CCEA1CH101T	CAP , ELECT	100UF 16V
C626	CCEA1CH101T	CAP , ELECT	100UF 16V
C628	CCEA1CH101T	CAP , ELECT	100UF 16V
C630	CCEA1CH101T	CAP , ELECT	100UF 16V
C703	CCEA1CH101T	CAP , ELECT	100UF 16V
C706	CCEA1CH101T	CAP , ELECT	100UF 16V
C715	CCEA1HH4R7T	CAP , ELECT	4.7UF 50V
C717	CCEA1HH4R7T	CAP , ELECT	4.7UF 50V
C720	CCEA1CH101T	CAP , ELECT	100UF 16V
C721	CCEA1AH471T	CAP , ELECT	470UF 10V
C724	CCEA1AH471T	CAP , ELECT	470UF 10V

INPUT PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
C726	CCEA1CH101T	CAP , ELECT	100UF 16V
C728	CCEA1AH471T	CAP , ELECT	470UF 10V
C730	CCEA1CH101T	CAP , ELECT	100UF 16V
C736	CCEA1HH2R2T	CAP , ELECT	2.2UF 50V
C737	CCEA1CH101T	CAP , ELECT	100UF 16V
C740	CCEA1CH101T	CAP , ELECT	100UF 16V
C749	CCEA1CH101T	CAP , ELECT	100UF 16V
C750	CCEA1CH101T	CAP , ELECT	100UF 16V
C752	CCEA1CH101T	CAP , ELECT	100UF 16V
C753	CCEA1CH101T	CAP , ELECT	100UF 16V
C764	CCEA0JH102T	CAP , ELECT	1000UF 6.3V
C766	CCEA0JH102T	CAP , ELECT	1000UF 6.3V
C767	CCEA1CKS100T	CAP , ELECT	10UF 16V
C774	CCEA1CH101T	CAP , ELECT	100UF 16V
C906	CCEA1CH101T	CAP , ELECT	100UF 16V
C907	CCEA1CH101T	CAP , ELECT	100UF 16V
C908	CCEA1CH101T	CAP , ELECT	100UF 16V
C910	CCEA1VH221T	CAP , ELECT	220UF 35V
C950	CCEA1VH101T	CAP , ELECT	100UF 35V
C954	CCEA1VH101T	CAP , ELECT	100UF 35V
C955	CCEA1EH221T	CAP , ELECT	220UF 25V
D221	CVD1N4003ST	DIODE , RECT	1N4003
D222	CVD1N4003ST	DIODE , RECT	1N4003
D402	CVD1N4003SRT	DIODE , RECT	1N4003
D443	CVDZJ6.8BT	DIODE , ZENER	ZJ6.8B 1/2W
D444	CVDZJ6.8BT	DIODE , ZENER	ZJ6.8B 1/2W
D445	CVDZJ6.8BT	DIODE , ZENER	ZJ6.8B 1/2W
D446	CVDZJ6.8BT	DIODE , ZENER	ZJ6.8B 1/2W
D447	HVDMTZJ12BT	DIODE , ZENER	MTZJ12B 1/2W
D703	CVD1N4003ST	DIODE , RECT	1N4003
D704	CVD1N4003SRT	DIODE , RECT	1N4003
D955	CVD1N4003ST	DIODE , RECT	1N4003
D956	CVD1N4003ST	DIODE , RECT	1N4003
IC87	HVIRE5VL28CATZ	IC , RESET	RICOH
Q301	HVTKTC2874BT	T.R , MUTE	KTC2874B
Q302	HVTKTC2874BT	T.R , MUTE	KTC2874B
Q303	HVTKTC2874BT	T.R , MUTE	KTC2874B
Q304	HVTKTC2874BT	T.R , MUTE	KTC2874B
Q305	HVTKTC2874BT	T.R , MUTE	KTC2874B
Q306	HVTKTC2874BT	T.R , MUTE	KTC2874B
Q307	HVTKTC2874BT	T.R , MUTE	KTC2874B
Q308	HVTKTC2874BT	T.R , MUTE	KTC2874B
Q311	HVTKTC2874BT	T.R , MUTE	KTC2874B
Q451	HVTKTC2874BT	T.R , MUTE	KTC2874B

INPUT PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
Q452	HVTKTC2874BT	T.R , MUTE	KTC2874B
Q453	HVTKTC2874BT	T.R , MUTE	KTC2874B
Q454	HVTKTC2874BT	T.R , MUTE	KTC2874B
Q731	HVTKSA1175YT	T.R	KSA1175Y(DEAD)
Q733	HVTKSC2785YT	T.R	KSC2785Y
Q737	HVTKSC2785YT	T.R	KSC2785Y
R459	CRD20TJ472T	RES , CARBON	4.7K OHM 1/5W J
BN11	CWZAVR145BN46	WIRE ASS'Y (SHIELD)	ASS'Y
BN16	CJP12GA115ZY	WAFER , CARD CABLE (1.25MM)	WAFER
BN19	CJP09GA117ZY	WAFER	WAFER
BN43	CWB1C903200BM	WIRE ASS'Y	WAFER
BN44	CJP07GA117ZY	WAFER	WAFER
BN49	CWB2B905080EN	WIRE ASS'Y	WAFER
BN90	CWB1C902370EN	WIRE ASS'Y	WAFER
CN10	CJP04GB46ZY	WAFER	WAFER
CN11	CJP17GA117ZY	WAFER	WAFER
CN12	CJP21GA115ZY	WAFER , CARD CABLE	WAFER
CN13	CJP13GA115ZY	WAFER , CARD CABLE	WAFER
CN14	CJP17GA117ZY	WAFER	WAFER
CN15	CJP15GA117ZY	WAFER , CARD CABLE	WAFER
CN16	CJP12GA115ZY	WAFER , CARD CABLE (1.25MM)	WAFER
CN17	CJP12GB142ZB	PIN HEADER(12PIN, 2.54mm,	PIN HEADER
CN18	CJP05GA19ZY	WAFER, STRAIGHT, 5PIN	WAFER
CN19	CJP09GA117ZY	WAFER	WAFER
CN20	CJP05GA01ZY	WAFER(YMW025-05R)	WAFER
CN22	CJP06GA19ZY	WAFER, STRAIGHT, 6PIN	WAFER
CN46	CJP03GB46ZY	WAFER , ANGLE , 3PIN	WAFER
CN47	CJP07GA117ZY	WAFER	WAFER
CN49	CJP05GA19ZY	WAFER, STRAIGHT, 5PIN	WAFER
CN72	CJP17GA117ZY	WAFER	WAFER
CN89	CJP02GA01ZY	WAFER, STRAIGHT, 2PIN	WAFER
CN90	CJP02GA19ZY	WAFER, 2PIN	CJP02GA19ZY
CN95	CJP03GA19ZY	WAFER , STRAIGHT, 3PIN	WAFER
CN97	CJP03GA01ZY	WAFER	WAFER
CN99	CJP08GA19ZY	WAFER, STRAIGHT, 8PIN	WAFER
C450	CCEA1VH471E	CAP , ELECT	470UF/ 35V
C732	CCEA0JKR3222E	CAP , ELECT	2200UF 6.3V
ET02	CMD1A570	BRACKET , PCB	BRACKET
ET03	CMD1A569	BRACKET , PCB	BRACKET
IC36	HVIL7808CP	I.C , REGULATOR (+8V)	ST
IC37	HVINJM7908FA	I.C, REGULATOR(-8V)	JRC
IC93	HVIL7905CP	I.C , REGULATOR (-5V)	ST
IC94	HVIL7805CP	I.C , REGULATOR (+5V)	ST
IC95	HVIL7812CP	I.C , REGULATOR (+12V)	ST

INPUT PCB ASSY

Ref. #	Part Number	Description	Value
IC96	HVINJM7824FA	I.C , REGULATOR(+24V)	JRC
JK11	CJJ4R019W	TERMINAL , IN/OUT	TERMINAL
JK12	CJJ4R019W	TERMINAL , IN/OUT	TERMINAL
JK13	CJJ4R019W	TERMINAL , IN/OUT	TERMINAL
JK14	CJJ4R037W	JACK , BOARD	JACK
JK16	CJJ4N076Z	JACK , IN/OUT	JACK
JK17	CJJ9L004Z	JACK , RJ-45	JACK
JW21	CWE7202070AA	WIRE ASS'Y	ASS'Y
X701	HOX24576E150TF	CRYSTAL	24.576MHZ
X703	HOX04332E200C	CRYSTAL	4.332MHZ

HUDSON PCB ASSY

Ref. #	Part Number	Description	Value
	CHG1A306	CUSHION	CUSHION
	CUP11915Z	PCB , HDMI HUDSON	PCB
CN81	CJP44HA213ZB	WAFER , HOUSING(2MM PITCH)	44PIN, 2MM PITCH
C803	CCUS1H104KC	CAP , CHIP	0.1UF
C804	CCUS1H104KC	CAP , CHIP	0.1UF
C805	CCUS1H101JA	CAP , CHIP	100PF
C806	CCUS1H470JA	CAP , CHIP	47UF
C807	CCUS1H470JA	CAP , CHIP	47UF
C808	CCUS1H104KC	CAP , CHIP	0.1UF
C809	CCUS1H104KC	CAP , CHIP	0.1UF
C810	CCUS1H104KC	CAP , CHIP	0.1UF
C811	CCUS1H104KC	CAP , CHIP	0.1UF
C812	CCUS1H104KC	CAP , CHIP	0.1UF
C813	CCUS1H104KC	CAP , CHIP	0.1UF
C814	CCUS1H104KC	CAP , CHIP	0.1UF
C815	CCUS1H104KC	CAP , CHIP	0.1UF
C816	CCUS1H104KC	CAP , CHIP	0.1UF
C817	CCUS1H104KC	CAP , CHIP	0.1UF
C818	CCUS1H104KC	CAP , CHIP	0.1UF
C819	CCUS1H104KC	CAP , CHIP	0.1UF
C820	CCUS1H104KC	CAP , CHIP	0.1UF
C821	CCUS1H104KC	CAP , CHIP	0.1UF
C822	CCUS1H104KC	CAP , CHIP	0.1UF
C823	CCUS1H104KC	CAP , CHIP	0.1UF
C824	CCUS1H104KC	CAP , CHIP	0.1UF
C825	CCUS1H104KC	CAP , CHIP	0.1UF
C826	CCUS1H104KC	CAP , CHIP	0.1UF
C827	CCUS1H104KC	CAP , CHIP	0.1UF
C828	CCUS1H104KC	CAP , CHIP	0.1UF
C829	CCUS1H104KC	CAP , CHIP	0.1UF
C830	CCUS1H104KC	CAP , CHIP	0.1UF

C831	CCUS1H104KC	CAP , CHIP	0.1UF
C832	CCUS1H104KC	CAP , CHIP	0.1UF
C833	CCUS1H104KC	CAP , CHIP	0.1UF
C834	CCUS1H104KC	CAP , CHIP	0.1UF
C835	CCUS1H104KC	CAP , CHIP	0.1UF
C836	CCUS1H104KC	CAP , CHIP	0.1UF
HUDSON PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
C837	CCUS1H104KC	CAP , CHIP	0.1UF
C838	CCUS1H104KC	CAP , CHIP	0.1UF
C839	CCUS1H104KC	CAP , CHIP	0.1UF
C840	CCUS1H104KC	CAP , CHIP	0.1UF
C841	CCUS1H104KC	CAP , CHIP	0.1UF
C842	CCUS1H104KC	CAP , CHIP	0.1UF
C843	CCUS1H104KC	CAP , CHIP	0.1UF
C844	CCUS1H104KC	CAP , CHIP	0.1UF
C845	CCUS1H104KC	CAP , CHIP	0.1UF
C846	CCUS1H104KC	CAP , CHIP	0.1UF
C847	CCUS1H392KC	CAP , CHIP CERAMIC(1608, 3)	3900PF
C848	CCUS1H821JA	CAP , CHIP	820PF
C849	CCUS1H104KC	CAP , CHIP	0.1UF
C850	CCUS1H104KC	CAP , CHIP	0.1UF
C851	CCUS1H104KC	CAP , CHIP	0.1UF
C852	CCUS1H104KC	CAP , CHIP	0.1UF
C853	CCUS1H104KC	CAP , CHIP	0.1UF
C854	CCUS1H104KC	CAP , CHIP	0.1UF
C855	CCUS1H104KC	CAP , CHIP	0.1UF
C856	CCUS1A105KC	CAP , CHIP	1UF
C857	CCUS1A105KC	CAP , CHIP	1UF
C858	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C859	CCUS1H104KC	CAP , CHIP	0.1UF
C860	CCUS1H104KC	CAP , CHIP	0.1UF
C861	CCUS1H104KC	CAP , CHIP	0.1UF
C862	CCUS1H104KC	CAP , CHIP	0.1UF
C863	CCUS1H104KC	CAP , CHIP	0.1UF
C864	CCUS1H104KC	CAP , CHIP	0.1UF
C865	CCUS1H104KC	CAP , CHIP	0.1UF
C866	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C867	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C868	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C869	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C870	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C871	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C872	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C873	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C874	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V

HUDSON PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
C875	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C876	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C877	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C878	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C879	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C880	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C881	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C882	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C883	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C884	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C885	CCUS1H104KC	CAP , CHIP	0.1UF
C886	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C887	CCUS1H104KC	CAP , CHIP	0.1UF
C888	CCUS1H104KC	CAP , CHIP	0.1UF
C889	CCUS1H104KC	CAP , CHIP	0.1UF
C891	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C892	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C893	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C894	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C895	HCEC0JRV2101T	CAP , CHIP ELECT	100UF/6.3V
C896	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C897	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C898	CCUS1H104KC	CAP , CHIP	0.1UF
C899	CCUS1H104KC	CAP , CHIP	0.1UF
C900	CCUS1H104KC	CAP , CHIP	0.1UF
C901	CCUS1H104KC	CAP , CHIP	0.1UF
C902	CCUS1H104KC	CAP , CHIP	0.1UF
C903	CCUS1H104KC	CAP , CHIP	0.1UF
C904	CCUS1H104KC	CAP , CHIP	0.1UF
C905	CCUS1H104KC	CAP , CHIP	0.1UF
C906	CCUS1H104KC	CAP , CHIP	0.1UF
C907	CCUS1H104KC	CAP , CHIP	0.1UF
C908	CCUS1H104KC	CAP , CHIP	0.1UF
C909	CCUS1H104KC	CAP , CHIP	0.1UF
C910	CCUS1H103KC	CAP , CHIP	0.01UF
C911	CCUS1H103KC	CAP , CHIP	0.01UF
C912	CCUS1H104KC	CAP , CHIP	0.1UF
C913	CCUS1H104KC	CAP , CHIP	0.1UF
C914	CCUS1H104KC	CAP , CHIP	0.1UF
C915	CCUS1H104KC	CAP , CHIP	0.1UF
C916	CCUS1H104KC	CAP , CHIP	0.1UF
C917	CCUS1H104KC	CAP , CHIP	0.1UF
C918	CCUS1H104KC	CAP , CHIP	0.1UF
C919	CCUS1H104KC	CAP , CHIP	0.1UF

HUDSON PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
C920	CCUS1H104KC	CAP , CHIP	0.1UF
C921	CCUS1H104KC	CAP , CHIP	0.1UF
C922	CCUS1H180JA	CAP , CHIP	18PF
C923	CCUS1H180JA	CAP , CHIP	18PF
C924	CCUS1H104KC	CAP , CHIP	0.1UF
C925	CCUS1H104KC	CAP , CHIP	0.1UF
C926	CCUS1H104KC	CAP , CHIP	0.1UF
C927	CCUS1H104KC	CAP , CHIP	0.1UF
C928	CCUS1H104KC	CAP , CHIP	0.1UF
C929	CCUS1H104KC	CAP , CHIP	0.1UF
C930	CCUS1H104KC	CAP , CHIP	0.1UF
C931	CCUS1H104KC	CAP , CHIP	0.1UF
C932	CCUS1H104KC	CAP , CHIP	0.1UF
C933	CCUS1H104KC	CAP , CHIP	0.1UF
C934	CCUS1H104KC	CAP , CHIP	0.1UF
C935	CCUS1H104KC	CAP , CHIP	0.1UF
C936	CCUS1H103KC	CAP , CHIP	0.01UF
C937	CCUS1H104KC	CAP , CHIP	0.1UF
C938	CCUS1H104KC	CAP , CHIP	0.1UF
C939	CCUS1H104KC	CAP , CHIP	0.1UF
C941	CCUS1H104KC	CAP , CHIP	0.1UF
C942	CCUS1H104KC	CAP , CHIP	0.1UF
C944	CCUS1H104KC	CAP , CHIP	0.1UF
C945	CCUS1H104KC	CAP , CHIP	0.1UF
C946	CCUS1H104KC	CAP , CHIP	0.1UF
C947	CCUS1H104KC	CAP , CHIP	0.1UF
C948	CCUS1H104KC	CAP , CHIP	0.1UF
C949	CCUS1H104KC	CAP , CHIP	0.1UF
C950	CCUS1H104KC	CAP , CHIP	0.1UF
C951	CCUS1H104KC	CAP , CHIP	0.1UF
C952	CCUS1H104KC	CAP , CHIP	0.1UF
C953	CCUS1H104KC	CAP , CHIP	0.1UF
C954	CCUS1H104KC	CAP , CHIP	0.1UF
C955	CCUS1H104KC	CAP , CHIP	0.1UF
C956	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C957	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C958	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C959	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C960	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C961	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C962	HCEC1CRV2100T	CAP , ELEC (SMD)	10UF / 16V
C963	CCUS1H104KC	CAP , CHIP	0.1UF
C964	CCUS1H104KC	CAP , CHIP	0.1UF
C965	CCUS1A105KC	CAP , CHIP	1UF

HUDSON PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
C966	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C967	HCEC0JRV2101T	CAP , CHIP ELECT	100UF/6.3V
C975	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C976	HCEC0JRV2101T	CAP , CHIP ELECT	100UF/6.3V
C978	HCEC0JRV2101T	CAP , CHIP ELECT	100UF/6.3V
C979	HCEC0JRV2101T	CAP , CHIP ELECT	100UF/6.3V
C980	HCEC0JRV2220T	CAP , CHIP ELECT	22UF/6.3V
C991	CCUS1H104KC	CAP , CHIP	0.1UF
C992	CCUS1H104KC	CAP , CHIP	0.1UF
C993	CCUS1H104KC	CAP , CHIP	0.1UF
C994	CCUS1H104KC	CAP , CHIP	0.1UF
D801	HVD1SR159-200	DIODE , SCHOTTKEY BARRIER	DIODE
D811	CVDAD1580BRT	I.C, 1.2V MICROPOWER,PRECI	MICROPOWER
D926	CVD1SS378	DIODE , SCHOTTKY BARRIER	DIODE
D927	CVD1SS378	DIODE , SCHOTTKY BARRIER	DIODE
IC78	CVIST232CDR	I.C , RS232C TRANSCEIVER	ST
IC79	HVIKIC7SZ08FU	I.C ,INPUT AND GATE	KEC
IC80	CVIST25VF080B504	I.C , 8 Mbit SPI Serial Flash	SST
IC81	CVIM24C32WMN6TP	I.C , EEPROM (32 Kbit)	ST
IC82	CVIFLI8125LFBC	I.C , HUDSON FAMILY	GENESIS
IC83	CVIADV7322KSTZ	I.C , VIDEO ENCODER	ANALOG DEVICES
IC84	CVINJM2566V	I.C , NJM2566AV(TE1)	JRC
IC85	HVINJM2391DL133	I.C , CHIP REGULATOR (+3.3)	JRC
IC86	HVINJM2391DL125	I.C , CHIP REGULATOR (+2.5)	JRC
IC87	CVINJM2845DL118	IC, CHIP REGULATOR(1.8V)	JRC
IC88	CVIIDTQS3VH16233	I.C , 32:16 BUS SWITCH	IDT
IC89	CVIIDTQS3VH16233	I.C , 32:16 BUS SWITCH	IDT
IC90	HVINJM2391DL133	I.C , CHIP REGULATOR (+3.3)	JRC
IC91	CVISII9031CTU7	I.C , HDMI RX	SILICON IMAGE
IC92	CVISII9030CTU7	I.C , HDMI TX	SILICON IMAGE
IC93	HVI74VHC08TTR	I.C , AND-GATE	ST
IC94	CVITC7MZ4052FK	I.C , 4CH MUX	TOSHIBA
IC95	CVIAT24C02NSU18	I.C , EEPROM (2K)	ATMEL
IC96	CVITC7MZ4052FK	I.C , 4CH MUX	TOSHIBA
IC97	CVIAT24C02NSU18	I.C , EEPROM (2K)	ATMEL
IC98	HVIRN5RZ50BA	REGULATOR 5V (SOT-23-5)	RICOH
IC99	CVINJM2845DL118	IC, NJM2845DL1-18(TE1)	JRC
JK91	HJJ9H003Z	JACK , HDMI(JALCO)	YKF45-7009
JK92	HJJ9H003Z	JACK , HDMI(JALCO)	YKF45-7009
JK93	HJJ9H003Z	JACK , HDMI(JALCO)	YKF45-7009
L801	HLZ9R006Z	BEAD , CHIP	HH-1H2012-221JT
L802	HLZ9Z014Z	CHIP , BEAD	HU-1H4516-600JT
L803	HLZ9R006Z	BEAD , CHIP	HH-1H2012-221JT
L804	HLZ9Z014Z	CHIP , BEAD	HU-1H4516-600JT

HUDSON PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
L805	HLZ9Z014Z	CHIP , BEAD	HU-1H4516-600JT
L806	HLZ9R006Z	BEAD , CHIP	HH-1H2012-221JT
L807	HLZ9R006Z	BEAD , CHIP	HH-1H2012-221JT
L808	HLZ9R006Z	BEAD , CHIP	HH-1H2012-221JT
L809	HLZ9R006Z	BEAD , CHIP	HH-1H2012-221JT
L810	HLZ9Z014Z	CHIP , BEAD	HU-1H4516-600JT
L811	HLZ9R006Z	BEAD , CHIP	HH-1H2012-221JT
L812	HLZ9Z014Z	CHIP , BEAD	HU-1H4516-600JT
L813	HLZ9Z014Z	CHIP , BEAD	HU-1H4516-600JT
L814	HLZ9Z014Z	CHIP , BEAD	HU-1H4516-600JT
L816	HLZ9Z014Z	CHIP , BEAD	HU-1H4516-600JT
L817	HLZ9Z014Z	CHIP , BEAD	HU-1H4516-600JT
L901	HLZ9Z014Z	CHIP , BEAD	HU-1H4516-600JT
L902	HLZ9Z014Z	CHIP , BEAD	HU-1H4516-600JT
L903	HLZ9Z014Z	CHIP , BEAD	HU-1H4516-600JT
L904	HLZ9Z014Z	CHIP , BEAD	HU-1H4516-600JT
L921	CLZ9R009Z	CHOKE COIL, CHIP (FOR HDMI)	TDK
L922	CLZ9R009Z	CHOKE COIL, CHIP (FOR HDMI)	TDK
L923	CLZ9R009Z	CHOKE COIL, CHIP (FOR HDMI)	TDK
L924	CLZ9R009Z	CHOKE COIL, CHIP (FOR HDMI)	TDK
Q902	CVTKRC103S	T.R , CHIP	KRC103S
Q903	HVTKRA102S	T.R , CHIP	KRA102S
Q904	CVTKRC103S	T.R , CHIP	KRC103S
Q905	HVTKRA102S	T.R , CHIP	KRA102S
Q906	CVTKRC103S	T.R , CHIP	KRC103S
Q907	CVTKRC103S	T.R , CHIP	KRC103S
Q908	CVTUPA672T	F.E.T	UPA672T
Q909	CVTUPA672T	F.E.T	UPA672T
Q910	CVTUPA672T	F.E.T	UPA672T
RN80	CRJ104DJ220T	RES , 4ARRAY (1608*4)	22 OHM/1608*4
RN81	CRJ104DJ220T	RES , 4ARRAY (1608*4)	22 OHM/1608*4
RN82	CRJ104DJ220T	RES , 4ARRAY (1608*4)	22 OHM/1608*4
RN83	CRJ104DJ220T	RES , 4ARRAY (1608*4)	22 OHM/1608*4
RN84	CRJ104DJ220T	RES , 4ARRAY (1608*4)	22 OHM/1608*4
RN85	CRJ104DJ220T	RES , 4ARRAY (1608*4)	22 OHM/1608*4
RN86	CRJ104DJ220T	RES , 4ARRAY (1608*4)	22 OHM/1608*4
RN87	CRJ104DJ220T	RES , 4ARRAY (1608*4)	22 OHM/1608*4
RN88	CRJ104DJ220T	RES , 4ARRAY (1608*4)	22 OHM/1608*4
RN89	CRJ104DJ220T	RES , 4ARRAY (1608*4)	22 OHM/1608*4
RN91	CRJ104DJ220T	RES , 4ARRAY (1608*4)	22 OHM/1608*4
RN92	CRJ104DJ220T	RES , 4ARRAY (1608*4)	22 OHM/1608*4
RN93	CRJ104DJ220T	RES , 4ARRAY (1608*4)	22 OHM/1608*4
RN94	CRJ104DJ220T	RES , 4ARRAY (1608*4)	22 OHM/1608*4
RN95	CRJ104DJ220T	RES , 4ARRAY (1608*4)	22 OHM/1608*4

RN96	CRJ104DJ220T	RES , 4ARRAY (1608*4)	22 OHM/1608*4
RN97	CRJ104DJ100T	RES , 4ARRAY (1608*4)	10 OHM/1608*4
HUDSON PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
R522	CRJ10DJ301T	RES , CHIP	300 OHM
R801	CRJ10DJ272T	RES , CHIP	2.7K OHM
R802	CRJ10DJ272T	RES , CHIP	2.7K OHM
R803	CRJ10DJ473T	RES , CHIP	47K OHM
R804	CRJ10DJ103T	RES , CHIP	10K OHM
R805	CRJ10DJ102T	RES , CHIP	1K OHM
R806	CRJ10DJ103T	RES , CHIP	10K OHM
R807	CRJ10DJ103T	RES , CHIP	10K OHM
R809	CRJ10DJ103T	RES , CHIP	10K OHM
R810	CRJ10DJ222T	RES , CHIP	2.2K OHM
R811	CRJ10DJ103T	RES , CHIP	10K OHM
R812	CRJ10DJ103T	RES , CHIP	10K OHM
R813	CRJ10DJ103T	RES , CHIP	10K OHM
R814	CRJ10DJ103T	RES , CHIP	10K OHM
R815	CRJ10DJ220T	RES , CHIP	22 OHM
R816	CRJ10DJ560T	RES , CHIP	56 OHM
R817	CRJ10DJ220T	RES , CHIP	22 OHM
R818	CRJ10DJ220T	RES , CHIP	22 OHM
R819	CRJ10DJ220T	RES , CHIP	22 OHM
R820	CRJ10DJ560T	RES , CHIP	56 OHM
R821	CRJ10DJ560T	RES , CHIP	56 OHM
R822	CRJ10DJ220T	RES , CHIP	22 OHM
R823	CRJ10DJ220T	RES , CHIP	22 OHM
R824	CRJ10DJ560T	RES , CHIP	56 OHM
R825	CRJ10DJ103T	RES , CHIP	10K OHM
R826	CRJ10DJ112T	RES , CHIP	1.1K OHM
R827	CRJ10DJ302T	RES , CHIP	3K OHM
R828	CRJ10DJ302T	RES , CHIP	3K OHM
R829	CRJ10DJ681T	RES , CHIP	680 OHM
R830	CRJ10DJ681T	RES , CHIP	680 OHM
R831	CRJ10DJ100T	RES , CHIP	10 OHM
R832	CRJ10DJ100T	RES , CHIP	10 OHM
R833	CRJ10DJ100T	RES , CHIP	10 OHM
R834	CRJ10DJ472T	RES , CHIP	4.7K OHM
R835	CRJ10DJ472T	RES , CHIP	4.7K OHM
R836	CRJ10DJ103T	RES , CHIP	10K OHM
R837	CRJ10DJ103T	RES , CHIP	10K OHM
R838	CRJ10DJ103T	RES , CHIP	10K OHM
R839	CRJ10DJ1R0T	RES , CHIP	1 OHM
R841	CRJ10DJ272T	RES , CHIP	2.7K OHM
R842	CRJ10DJ272T	RES , CHIP	2.7K OHM
R843	CRJ10DJ272T	RES , CHIP	2.7K OHM

HUDSON PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
R844	CRJ10DJ272T	RES , CHIP	2.7K OHM
R851	CRJ10DJ301T	RES , CHIP	300 OHM
R853	CRJ10DJ301T	RES , CHIP	300 OHM
R854	CRJ10DJ301T	RES , CHIP	300 OHM
R855	CRJ10DJ272T	RES , CHIP	2.7K OHM
R856	CRJ10DJ301T	RES , CHIP	300 OHM
R857	CRJ10DJ301T	RES , CHIP	300 OHM
R858	CRJ10DJ103T	RES , CHIP	10K OHM
R859	CRJ10DJ103T	RES , CHIP	10K OHM
R871	CRJ10DJ5R6T	RES , CHIP	5.6 OHM
R872	CRJ10DJ100T	RES , CHIP	10 OHM
R873	CRJ10DJ9R1T	RES , CHIP	9.1 OHM
R874	CRJ10DJ750T	RES , CHIP	75 OHM
R875	CRJ10DJ750T	RES , CHIP	75 OHM
R876	CRJ10DJ750T	RES , CHIP	75 OHM
R880	CRJ10DJ680T	RES , CHIP	68 OHM
R881	CRJ10DJ820T	RES , CHIP	82 OHM
R882	CRJ10DJ820T	RES , CHIP	82 OHM
R907	CRJ10DJ102T	RES , CHIP	1K OHM
R908	CRJ10DJ223T	RES , CHIP	22K OHM
R909	CRJ10DJ101T	RES , CHIP	100 OHM
R910	CRJ10DJ101T	RES , CHIP	100 OHM
R911	CRJ10DJ101T	RES , CHIP	100 OHM
R912	CRJ10DJ101T	RES , CHIP	100 OHM
R913	CRJ10DJ102T	RES , CHIP	1K OHM
R914	CRJ10DJ223T	RES , CHIP	22K OHM
R915	CRJ10DJ103T	RES , CHIP	10K OHM
R916	CRJ10DJ473T	RES , CHIP	47K OHM
R917	CRJ10DJ103T	RES , CHIP	10K OHM
R918	CRJ10DJ103T	RES , CHIP	10K OHM
R919	CRJ10DJ103T	RES , CHIP	10K OHM
R920	CRJ10DJ473T	RES , CHIP	47K OHM
R921	CRJ10DJ103T	RES , CHIP	10K OHM
R922	CRJ10DJ103T	RES , CHIP	10K OHM
R923	CRJ10DJ181T	RES , CHIP	180 OHM
R928	CRJ10DJ101T	RES , CHIP	100 OHM
R929	CRJ10DJ101T	RES , CHIP	100 OHM
R933	CRJ10DJ332T	RES , CHIP	3.3K OHM
R934	CRJ10DJ332T	RES , CHIP	3.3K OHM
R935	CRJ10DJ332T	RES , CHIP	3.3K OHM
R936	CRJ10DJ473T	RES , CHIP	47K OHM
R937	CRJ10DJ101T	RES , CHIP	100 OHM
R938	CRJ10DJ101T	RES , CHIP	100 OHM
R939	CRJ10DJ473T	RES , CHIP	47K OHM

HUDSON PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
R940	CRJ10DJ473T	RES , CHIP	47K OHM
R941	CRJ10DJ101T	RES , CHIP	100 OHM
R942	CRJ10DJ220T	RES , CHIP	22 OHM
R943	CRJ10DJ220T	RES , CHIP	22 OHM
R944	CRJ10DJ220T	RES , CHIP	22 OHM
R945	CRJ10DJ330T	RES , CHIP	33 OHM
R946	CRJ10DJ105T	RES , CHIP	1M OHM
R947	CRJ10DJ103T	RES , CHIP	10K OHM
R948	CRJ10DJ103T	RES , CHIP	10K OHM
R949	CRJ10DJ182T	RES , CHIP	1.8K OHM
R950	CRJ10DJ103T	RES , CHIP	10K OHM
R951	CRJ10DJ182T	RES , CHIP	1.8K OHM
R952	CRJ10DJ182T	RES , CHIP	1.8K OHM
R953	CRJ10DJ471T	RES , CHIP	470 OHM
R962	CRJ10DJ101T	RES , CHIP	100 OHM
R963	CRJ10DJ103T	RES , CHIP	10K OHM
R964	CRJ10DJ101T	RES , CHIP	100 OHM
R966	CRJ10DJ222T	RES , CHIP	2.2K OHM
R967	CRJ10DJ222T	RES , CHIP	2.2K OHM
R975	CRJ10DJ473T	RES , CHIP	47K OHM
R976	CRJ10DJ473T	RES , CHIP	47K OHM
X801	COX19660E330S	CRYSTAL , CHIP(SMD)	19.6608 MHz
X901	HOX27000E180S	CRYSTAL , CHIP(SMD)	27MHz
CN80	CJP03GA19ZY	WAFER , STRAIGHT, 3PIN	WAFER
C711	CCCT1H100DC	CAP , CERAMIC	10UF
J801	CRD25TJ100T	RES , CARBON	10 OHM/ 1/4W
J802	CRD25TJ100T	RES , CARBON	10 OHM/ 1/4W

POWER PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
	CHG1A218	CUSHION	CUSHION
	CUP11916X	PCB , POWER	PCB
C104	HCBS1H103ZFT	CAP , CERAMIC	0.01UF 50V
C105	HCBS1H103ZFT	CAP , CERAMIC	0.01UF 50V
C106	CCFT1H104ZF	CAP , SEMICONDUCTOR	0.1UF 50V
C107	HCBS1H103ZFT	CAP , CERAMIC	0.01UF 50V
C108	HCBS1H103ZFT	CAP , CERAMIC	0.01UF 50V
C109	CCFT1H104ZF	CAP , SEMICONDUCTOR	0.1UF 50V
C117	CCEA1HH4R7T	CAP , ELECT	4.7UF 50V
C118	HCBS1H103ZFT	CAP , CERAMIC	0.01UF 50V
C119	CCEA1JH470TS	CAP , ELECT	63V/47UF/105'C
C120	CCEA1JH470TS	CAP , ELECT	63V/47UF/105'C
C121	HCBS1H103ZFT	CAP , CERAMIC	0.01UF 50V
C123	CCFT1H473ZF	CAP , CERAMIC	0.047UF 50V

POWER PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
C125	CCFT1H473ZF	CAP , CERAMIC	0.047UF 50V
C126	CCFT1H473ZF	CAP , CERAMIC	0.047UF 50V
C131	CCEA1HH4R7T	CAP , ELECT	4.7UF 50V
C750	CCEA1CH101T	CAP , ELECT	100UF 16V
C751	CCEA1CH101T	CAP , ELECT	100UF 16V
C752	CCEA1CH101T	CAP , ELECT	100UF 16V
C753	HCBS1H181KBT	CAP , CERAMIC	180PF 50V
C754	HCBS1H181KBT	CAP , CERAMIC	180PF 50V
C755	HCBS1H181KBT	CAP , CERAMIC	180PF 50V
C756	CCFT1H104ZF	CAP , SEMICONDUCTOR	0.1UF 50V
C757	CCFT1H104ZF	CAP , SEMICONDUCTOR	0.1UF 50V
C758	CCFT1H104ZF	CAP , SEMICONDUCTOR	0.1UF 50V
C759	HCBS1H101KBT	CAP , CERAMIC	100PF 50V
C762	CCEA1CH101T	CAP , ELECT	100UF 16V
C763	CCFT1H104ZF	CAP , SEMICONDUCTOR	0.1UF 50V
C851	CCEA1HH100T	CAP , ELECT	10UF 50V
C852	CCEA1HH100T	CAP , ELECT	10UF 50V
C853	CCEA1HH100T	CAP , ELECT	10UF 50V
C854	CCEA1HH100T	CAP , ELECT	10UF 50V
C855	CCEA1HH100T	CAP , ELECT	10UF 50V
C856	CCEA1HH100T	CAP , ELECT	10UF 50V
C857	CCEA1HH100T	CAP , ELECT	10UF 50V
C919	CCKT1H102KB	CAP , CERAMIC	1000PF 50V
C920	CCEA1HH470T	CAP , ELECT	47UF 50V
C921	HCQI1H104JZT	CAP , MYLAR	0.1UF 50V J
C922	HCQI1H104JZT	CAP , MYLAR	0.1UF 50V J
C923	HCQI1H104JZT	CAP , MYLAR	0.1UF 50V J
C924	HCQI1H104JZT	CAP , MYLAR	0.1UF 50V J
C925	HCQI1H103JZT	CAP , MYLAR	0.01UF 50V J
C926	HCQI1H103JZT	CAP , MYLAR	0.01UF 50V J
C927	HCQI1H103JZT	CAP , MYLAR	0.01UF 50V J
C928	HCQI1H103JZT	CAP , MYLAR	0.01UF 50V J
C931	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J
C932	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J
C933	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J
C934	HCQI1H473JZT	CAP , MYLAR	0.047UF 50V J
C935	HCBS1H223ZFT	CAP , CERAMIC	0.022UF 50V
C936	HCBS1H223ZFT	CAP , CERAMIC	0.022UF 50V
C937	HCBS1H223ZFT	CAP , CERAMIC	0.022UF 50V
C938	CCEA1CH101T	CAP , ELECT	100UF 16V
C939	CCEA1EH101T	CAP , ELECT	100UF 25V
C940	CCEA1EH101T	CAP , ELECT	100UF 25V
C947	CCFT1H104ZF	CAP , SEMICONDUCTOR	0.1UF 50V
C948	CCFT1H103ZF	CAP , CERAMIC	0.01UF 50V

POWER PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
C949	CCFT1H103ZF	CAP , CERAMIC	0.01UF 50V
C970	CCKT1H561KB	CAP , CERAMIC	560PF 50V
C971	CCFT1H104ZF	CAP , SEMICONDUCTOR	0.1UF 50V
C977	CCFT1H103ZF	CAP , CERAMIC	0.01UF 50V
D101	HVDMTZJ15BT	DIODE , ZENER	MTZJ15B 1/2W
D102	HVDMTZJ27BT	DIODE , ZENER	MTZJ27B 1/2W
D104	CVD1N4003ST	DIODE , RECT	1N4003
D105	CVD1N4003ST	DIODE , RECT	1N4003
D108	CVD1N4003ST	DIODE , RECT	1N4003
D109	HVDMTZJ12BT	DIODE , ZENER	MTZJ12B 1/2W
D111	HVDMTZJ12BT	DIODE , ZENER	MTZJ12B 1/2W
D112	CVD1N4003ST	DIODE , RECT	1N4003
D113	CVD1N4003ST	DIODE , RECT	1N4003
D114	CVD1N4003ST	DIODE , RECT	1N4003
D115	CVD1N4003ST	DIODE , RECT	1N4003
D116	CVD1N4003ST	DIODE , RECT	1N4003
D117	CVD1N4003ST	DIODE , RECT	1N4003
D118	CVD1N4003ST	DIODE , RECT	1N4003
D119	CVD1N4003ST	DIODE , RECT	1N4003
D124	CVD1N4003ST	DIODE , RECT	1N4003
D125	CVD1N4003ST	DIODE , RECT	1N4003
D921	CVD1SS133MT	DIODE	1SS133
D922	HVDMTZJ3.3BT	DIODE , ZENER	MTZJ3.3B 1/2W
D950	CVD1N4003ST	DIODE , RECT	1N4003
D951	CVD1N4003ST	DIODE , RECT	1N4003
Q104	HVTKSC2316YT	T.R	KSC2316Y
Q911	HVTKTA1267YT	T.R	KTA1267Y
Q912	HVTKTC3198YT	T.R	KTC3198Y
Q913	HVTKTC3198YT	T.R	KTC3198Y
Q995	HVTKRA107MT	T.R	KRA107M
Q996	HVTKRC107MT	T.R	KRC107M
Q997	HVTKRC107MT	T.R	KRC107M
R101	CRD25FJ3R3T	RES , CARBON	3.3 OHM 1/4W J
R108	CRD20TJ4R7T	RES , CARBON	4.7 OHM 1/5W J
R109	CRD20TJ100T	RES , CARBON	10 OHM 1/5W J
R110	CRD20TJ4R7T	RES , CARBON	4.7 OHM 1/5W J
R112	CRD20TJ122T	RES , CARBON	1.2K OHM 1/5W J
R113	CRD20TJ473T	RES , CARBON	47K OHM 1/5W J
R120	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J
R750	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J
R751	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J
R752	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J
R756	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J
R757	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J

POWER PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
R758	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J
R759	CRD20TJ100T	RES , CARBON	10 OHM 1/5W J
R760	CRD20TJ241T	RES , CARBON	240OHM 1/5W J
R761	CRD20TJ750T	RES , CARBON	75 OHM 1/5W J
R874	CRD20TJ331T	RES , CARBON	330 OHM 1/5W J
R875	CRD20TJ331T	RES , CARBON	330 OHM 1/5W J
R876	CRD20TJ331T	RES , CARBON	330 OHM 1/5W J
R877	CRD20TJ331T	RES , CARBON	330 OHM 1/5W J
R878	CRD20TJ331T	RES , CARBON	330 OHM 1/5W J
R879	CRD20TJ331T	RES , CARBON	330 OHM 1/5W J
R880	CRD20TJ331T	RES , CARBON	330 OHM 1/5W J
R882	CRD20TJ122T	RES , CARBON	1.2K OHM 1/5W J
R883	CRD20TJ122T	RES , CARBON	1.2K OHM 1/5W J
R884	CRD20TJ122T	RES , CARBON	1.2K OHM 1/5W J
R885	CRD20TJ122T	RES , CARBON	1.2K OHM 1/5W J
R886	CRD20TJ122T	RES , CARBON	1.2K OHM 1/5W J
R887	CRD20TJ122T	RES , CARBON	1.2K OHM 1/5W J
R888	CRD20TJ122T	RES , CARBON	1.2K OHM 1/5W J
R912	CRD20TJ153T	RES , CARBON	15K OHM 1/5W J
R913	CRD20TJ153T	RES , CARBON	15K OHM 1/5W J
R917	CRD20TJ153T	RES , CARBON	15K OHM 1/5W J
R918	CRD20TJ153T	RES , CARBON	15K OHM 1/5W J
R919	CRD20TJ153T	RES , CARBON	15K OHM 1/5W J
R920	CRD20TJ153T	RES , CARBON	15K OHM 1/5W J
R921	CRD20TJ153T	RES , CARBON	15K OHM 1/5W J
R922	CRD20TJ153T	RES , CARBON	15K OHM 1/5W J
R923	CRD25TJ153T	RES , CARBON	15K OHM 1/4W J
R924	CRD20TJ153T	RES , CARBON	15K OHM 1/5W J
R925	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J
R926	CRD25TJ103T	RES , CARBON	10K OHM 1/4W J
R927	CRD20TJ104T	RES , CARBON	100K OHM 1/5W J
R928	CRD20TJ333T	RES , CARBON	33K OHM 1/5W J
R970	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J
R971	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J
R972	CRD20TJ473T	RES , CARBON	47K OHM 1/5W J
R973	CRD20TJ473T	RES , CARBON	47K OHM 1/5W J
R974	CRD20TJ271T	RES , CARBON	270 OHM 1/5W J
R975	CRD20TJ271T	RES , CARBON	270 OHM 1/5W J
R976	CRD20TJ470T	RES , CARBON	47 OHM 1/5W J
R977	CRD20TJ103T	RES , CARBON	10K OHM 1/5W J
VR81	HVN1RA221B01T	RES , SEMI FIXED(220 OHM)	RH0615C100221
VR82	HVN1RA221B01T	RES , SEMI FIXED(220 OHM)	RH0615C100221
VR83	HVN1RA221B01T	RES , SEMI FIXED(220 OHM)	RH0615C100221
VR84	HVN1RA221B01T	RES , SEMI FIXED(220 OHM)	RH0615C100221

POWER PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
VR85	HVN1RA221B01T	RES , SEMI FIXED(220 OHM)	RH0615C100221
VR86	HVN1RA221B01T	RES , SEMI FIXED(220 OHM)	RH0615C100221
VR87	HVN1RA221B01T	RES , SEMI FIXED(220 OHM)	RH0615C100221
BN17	CJP12GB143ZB	PIN HEADER , DIP SOCKET	PIN HEADER
BN20	CWB1C905220BM	WIRE ASS'Y	2.5MM PITCH, 220M
BN22	CWB1C902280NN	WIRE ASS'Y	WIRE
BN95	CWB1C903080EN	WIRE ASS'Y	WIRE
BN96	CWB1C909150BM	WIRE ASS'Y	WIRE
BN99	CWB1B908270EN	WIRE ASS'Y	WIRE
CN13	CJP05GA01ZY	CON WAFER YMW025-05R	WAFER
CN19	CJP03GA90ZY	WAFER	WAFER
CN20	CJP04GA90ZM	WAFER	WAFER
CN31	CJP02GA19ZY	WAFER, 2PIN	CJP02GA19ZY
CN32	CJP02GA19ZY	WAFER, 2PIN	CJP02GA19ZY
CN33	CJP02GA19ZY	WAFER, 2PIN	CJP02GA19ZY
CN34	CJP02GA19ZY	WAFER, 2PIN	CJP02GA19ZY
CN35	CJP02GA19ZY	WAFER, 2PIN	CJP02GA19ZY
CN36	CJP02GA19ZY	WAFER, 2PIN	CJP02GA19ZY
CN37	CJP02GA19ZY	WAFER, 2PIN	CJP02GA19ZY
CN81	CJP08GA01ZY	WAFER, STRAIGHT, 8PIN	WAFER
CN88	CJP06GA19ZY	WAFER, STRAIGHT, 6PIN	WAFER
CN96	CJP09GA01ZY	CON WAFER YMW025-09R	WAFER
CN98	HJP08GB131ZK	WAFER	WAFER
C122	CCEA1JH101E	CAP , ELECT	100UF 63V
C124	CCEA1VH102E	CAP , ELECT	1000UF 35V
C128	CCEA1EH102E	CAP , ELECT	1000UF 25V
C129	CCEA1EH222E	CAP , ELECT	2200UF 25V
C132	CCEA1EH822F	CAP, ELECT(8200uF/25V)	8200uF/25V
C912	CCEA0JKR3222E	CAP , ELECT	2200UF 6.3V
C929	CCEA1VH102E	CAP , ELECT	1000UF 35V
C930	CCEA1VH102E	CAP , ELECT	1000UF 35V
C941	CCEA1CH682E	CAP , ELECT	6800UF 16V
C951	CCEA1HH102E	CAP , ELECT	1000UF/50V
D120	HVDSB2100	DIODE , SCHOTTKY	SB2100
D121	HVDSB2100	DIODE , SCHOTTKY	SB2100
D991	CVDKBU804FMA	BRIDGE DIODE ASS'Y	KBU804F
	CMY1A219	HEAT SINK (BRIDGE DIODE)	HEAT SINK
	CTB3+12JR	SCREW	SCREW
	HVDKBU804F	DIODE , BRIDGE	KBU804F
	K8AYG6260	COMPOUND , SILICONE	SILICONE
D992	CVDKBU804FMA	BRIDGE DIODE ASS'Y	KBU804F
	CMY1A219	HEAT SINK (BRIDGE DIODE)	HEAT SINK
	CTB3+12JR	SCREW	SCREW
	HVDKBU804F	DIODE , BRIDGE	KBU804F

POWER PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
	K8AYG6260	COMPOUND , SILICONE	SILICONE
ET04	CMD1A569	BRACKET , PCB	BRACKET
ET05	CMD1A569	BRACKET , PCB	BRACKET
IC89	HVIL7805CP	I.C, REGULATOR(+5V)	ST
IC90	HVIL7815CP	I.C, REGULATOR(+15V)	ST
IC91	HVIL7915CP	I.C, REGULATOR(-15V)	ST
IC97	BVIKP1010B	IC, PHOTO COUPLER	COSMO
IC98	BVIKP1010B	IC, PHOTO COUPLER	COSMO
IC99	HVI74LCX32TTR	I.C , OR-GATE	ST
JK74	HJSTOTX177L	MODULE , OPTICAL(TX)	TOTX177L
JK75	HJSTORX177L	MODULE , OPTICAL(RX)	TORX177L
JK76	HJSTORX177L	MODULE , OPTICAL(RX)	TORX177L
JK77	HJSTORX177L	MODULE , OPTICAL(RX)	TORX177L
JK78	CJJ4N068Z	JACK , BOARD	JACK
JK79	CJJ4N068Z	JACK , BOARD	JACK
JK94	CJJ2D008Z	JACK , STEREO	JACK
JK95	CJJ2D008Z	JACK , STEREO	JACK
JK96	CJJ2D008Z	JACK , STEREO	JACK
JK99	CJJ2D008Z	JACK , STEREO	JACK
Q851	HVTKTD600KGR	T.R , BIAS	KTD600KGR
Q852	HVTKTD600KGR	T.R , BIAS	KTD600KGR
Q853	HVTKTD600KGR	T.R , BIAS	KTD600KGR
Q854	HVTKTD600KGR	T.R , BIAS	KTD600KGR
Q855	HVTKTD600KGR	T.R , BIAS	KTD600KGR
Q856	HVTKTD600KGR	T.R , BIAS	KTD600KGR
Q857	HVTKTD600KGR	T.R , BIAS	KTD600KGR
R104	KRQ1AJR47H	RES , FUSE	0.47 OHM 1W J
R105	KRQ1AJR47H	RES , FUSE	0.47 OHM 1W J
R106	CRQ1AJR33H	RES , FUSE	0.33 OHM 1W J
R107	CRQ1AJR33H	RES , FUSE	0.33 OHM 1W J
R114	KRQ1AJR47H	RES , FUSE	0.47 OHM 1W J
R115	KRQ1AJR47H	RES , FUSE	0.47 OHM 1W J
R116	CRQ1AJR33H	RES , FUSE	0.33 OHM 1W J
R117	CRQ1AJR33H	RES , FUSE	0.33 OHM 1W J
R949	CRQ1AJR33H	RES , FUSE	0.33 OHM 1W J
R950	CRQ1AJR33H	RES , FUSE	0.33 OHM 1W J
VIDEO PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
	CUP11918Z	PCB , VIDEO	PCB
C401	CCUS1H101JA	CAP , CHIP	100PF
C402	CCUS1H101JA	CAP , CHIP	100PF
C403	CCUS1H101JA	CAP , CHIP	100PF
C461	CCUS1H223KC	CAP , CHIP	0.022UF

VIDEO PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
C463	CCUS1H223KC	CAP , CHIP	0.022UF
C465	CCUS1H470JA	CAP , CHIP	47PF
C466	CCUS1H223KC	CAP , CHIP	0.022UF
C468	CCUS1H223KC	CAP , CHIP	0.022UF
C470	CCUS1H470JA	CAP , CHIP	47PF
C471	CCUS1H223KC	CAP , CHIP	0.022UF
C473	CCUS1H223KC	CAP , CHIP	0.022UF
C475	CCUS1H470JA	CAP , CHIP	47PF
C485	CCUS1H223KC	CAP , CHIP	0.022UF
C487	CCUS1H223KC	CAP , CHIP	0.022UF
C491	CCUS1H101JA	CAP , CHIP	100PF
C492	CCUS1H101JA	CAP , CHIP	100PF
C493	CCUS1H101JA	CAP , CHIP	100PF
C601	CCUS1H220JA	CAP , CHIP	22PF
C603	CCUS1H220JA	CAP , CHIP	22PF
C605	CCUS1H220JA	CAP , CHIP	22PF
C611	CCUS1H220JA	CAP , CHIP	22PF
C613	CCUS1H220JA	CAP , CHIP	22PF
C615	CCUS1H220JA	CAP , CHIP	22PF
C621	CCUS1H220JA	CAP , CHIP	22PF
C623	CCUS1H220JA	CAP , CHIP	22PF
C625	CCUS1H220JA	CAP , CHIP	22PF
C631	CCUS1H220JA	CAP , CHIP	22PF
C633	CCUS1H220JA	CAP , CHIP	22PF
C635	CCUS1H220JA	CAP , CHIP	22PF
C672	CCUS1H104KC	CAP , CHIP	0.1UF
C677	CCUS1H473KC	CAP , CHIP	0.047UF
IC41	CVINJM2595MTE1	I.C , VIDEO S/W	JRC
IC42	CVINJM2595MTE1	I.C , VIDEO S/W	JRC
IC43	CVINJM2595MTE1	I.C , VIDEO S/W	JRC
IC48	HVIHCF4053M013T	I.C, ANALOG MULTIPLEXER	ST
IC61	CVINJW1321FP1	I.C , VIDEO S/W	JRC
R401	CRJ10DJ750T	RES , CHIP	75 OHM
R402	CRJ10DJ750T	RES , CHIP	75 OHM
R403	CRJ10DJ750T	RES , CHIP	75 OHM
R411	CRJ10DJ750T	RES , CHIP	75 OHM
R412	CRJ10DJ750T	RES , CHIP	75 OHM
R413	CRJ10DJ750T	RES , CHIP	75 OHM
R421	CRJ10DJ750T	RES , CHIP	75 OHM
R422	CRJ10DJ750T	RES , CHIP	75 OHM
R423	CRJ10DJ750T	RES , CHIP	75 OHM
R431	CRJ10DJ750T	RES , CHIP	75 OHM
R432	CRJ10DJ750T	RES , CHIP	75 OHM
R433	CRJ10DJ750T	RES , CHIP	75 OHM

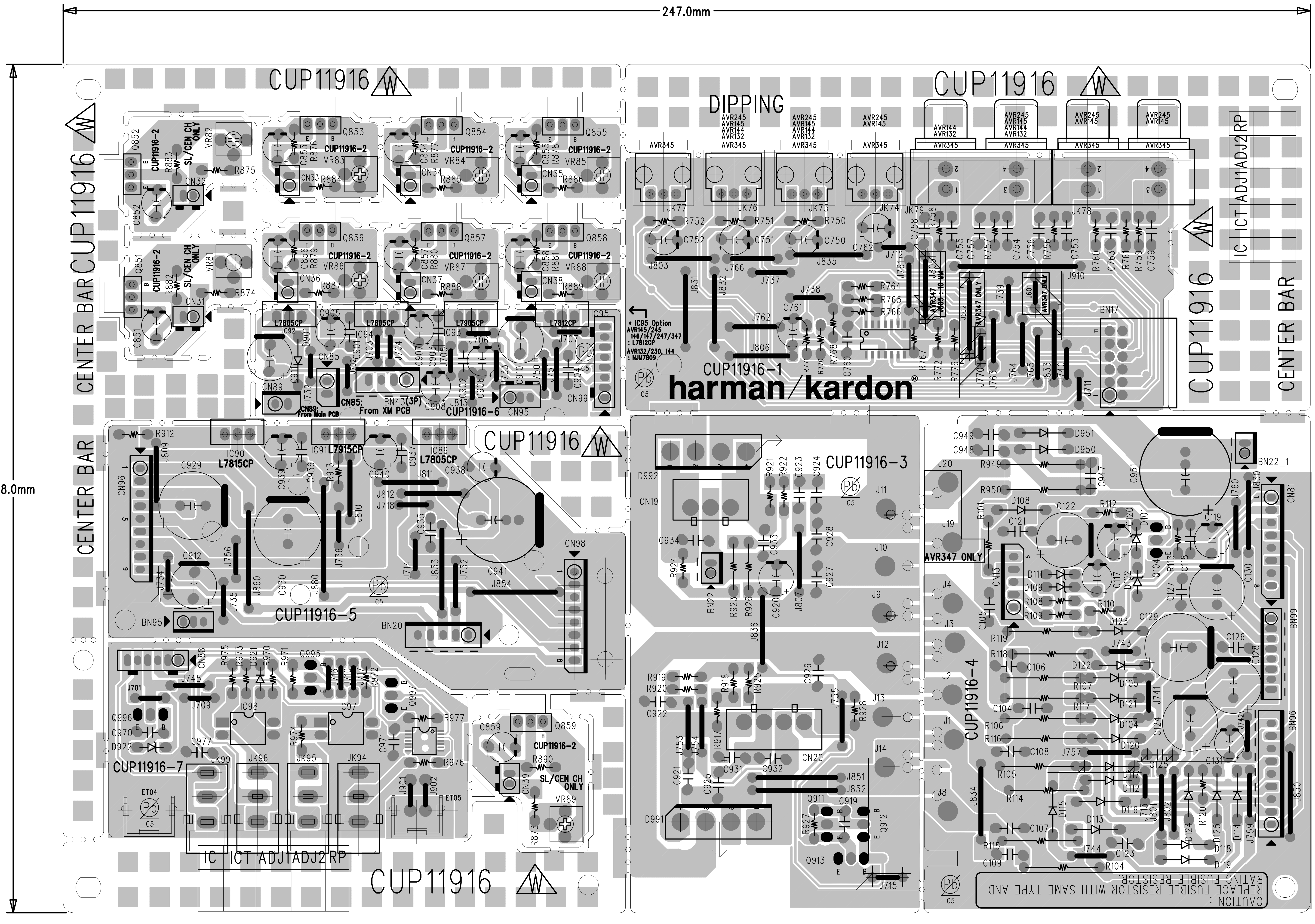
VIDEO PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
R451	CRJ10DJ750T	RES , CHIP	75 OHM
R452	CRJ10DJ750T	RES , CHIP	75 OHM
R453	CRJ10DJ750T	RES , CHIP	75 OHM
R461	CRJ10DJ102T	RES , CHIP	1K OHM
R462	CRJ10DJ820T	RES , CHIP	82 OHM
R463	CRJ10DJ910T	RES , CHIP	91 OHM
R466	CRJ10DJ102T	RES , CHIP	1K OHM
R467	CRJ10DJ750T	RES , CHIP	75 OHM
R468	CRJ10DJ910T	RES , CHIP	91 OHM
R471	CRJ10DJ102T	RES , CHIP	1K OHM
R472	CRJ10DJ820T	RES , CHIP	82 OHM
R473	CRJ10DJ910T	RES , CHIP	91 OHM
R485	CRJ10DJ100T	RES , CHIP	10 OHM
R487	CRJ10DJ100T	RES , CHIP	10 OHM
R491	CRJ10DJ750T	RES , CHIP	75 OHM
R492	CRJ10DJ750T	RES , CHIP	75 OHM
R493	CRJ10DJ750T	RES , CHIP	75 OHM
R494	CRJ10DJ102T	RES , CHIP	1K OHM
R601	CRJ10DJ820T	RES , CHIP	82 OHM
R603	CRJ10DJ680T	RES , CHIP	68 OHM
R604	CRJ10DJ0R0T	RES , CHIP	0 OHM
R605	CRJ10DJ680T	RES , CHIP	68 OHM
R611	CRJ10DJ750T	RES , CHIP	75 OHM
R612	CRJ10DJ750T	RES , CHIP	75 OHM
R613	CRJ10DJ750T	RES , CHIP	75 OHM
R614	CRJ10DJ0R0T	RES , CHIP	75 OHM
R615	CRJ10DJ0R0T	RES , CHIP	75 OHM
R616	CRJ10DJ0R0T	RES , CHIP	75 OHM
R621	CRJ10DJ750T	RES , CHIP	75 OHM
R622	CRJ10DJ750T	RES , CHIP	75 OHM
R623	CRJ10DJ750T	RES , CHIP	75 OHM
R624	CRJ10DJ0R0T	RES , CHIP	0 OHM
R625	CRJ10DJ0R0T	RES , CHIP	0 OHM
R626	CRJ10DJ0R0T	RES , CHIP	0 OHM
R631	CRJ10DJ750T	RES , CHIP	75 OHM
R633	CRJ10DJ750T	RES , CHIP	75 OHM
R635	CRJ10DJ750T	RES , CHIP	75 OHM
C404	CCEA0JH102T	CAP , ELECT	1000UF 6.3V
C405	CCEA1HH100T	CAP , ELECT	10UF 50V
C406	CCEA0JH102T	CAP , ELECT	1000UF 6.3V
C411	CCEA1HH100T	CAP , ELECT	10UF 50V
C412	CCEA1HH100T	CAP , ELECT	10UF 50V
C413	CCEA1HH100T	CAP , ELECT	10UF 50V
C421	CCEA1HH100T	CAP , ELECT	10UF 50V

VIDEO PCB ASSY			
Ref. #	**Part Number**	**Description**	**Value**
C422	CCEA1HH100T	CAP , ELECT	10UF 50V
C423	CCEA1HH100T	CAP , ELECT	10UF 50V
C431	CCEA1HH100T	CAP , ELECT	10UF 50V
C432	CCEA1HH100T	CAP , ELECT	10UF 50V
C433	CCEA1HH100T	CAP , ELECT	10UF 50V
C451	CCEA1HH100T	CAP , ELECT	10UF 50V
C452	CCEA1HH100T	CAP , ELECT	10UF 50V
C453	CCEA1HH100T	CAP , ELECT	10UF 50V
C462	CCEA1CH101T	CAP , ELECT	100UF 16V
C464	CCEA1CH101T	CAP , ELECT	100UF 16V
C467	CCEA1CH101T	CAP , ELECT	100UF 16V
C469	CCEA1CH101T	CAP , ELECT	100UF 16V
C472	CCEA1CH101T	CAP , ELECT	100UF 16V
C474	CCEA1CH101T	CAP , ELECT	100UF 16V
C486	CCEA1CH101T	CAP , ELECT	100UF 16V
C488	CCEA1CH101T	CAP , ELECT	100UF 16V
C602	CCEA0JH102T	CAP , ELECT	1000UF 6.3V
C604	CCEA0JH102T	CAP , ELECT	1000UF 6.3V
C606	CCEA0JH102T	CAP , ELECT	1000UF 6.3V
C612	CCEA1HH100T	CAP , ELECT	10UF 50V
C614	CCEA1HH100T	CAP , ELECT	10UF 50V
C616	CCEA1HH100T	CAP , ELECT	10UF 50V
C622	CCEA1HH100T	CAP , ELECT	10UF 50V
C624	CCEA1HH100T	CAP , ELECT	10UF 50V
C626	CCEA1HH100T	CAP , ELECT	10UF 50V
C632	CCEA1HH100T	CAP , ELECT	10UF 50V
C634	CCEA1HH100T	CAP , ELECT	10UF 50V
C636	CCEA1HH100T	CAP , ELECT	10UF 50V
C641	CCEA1HH100T	CAP , ELECT	10UF 50V
C643	CCEA1HH100T	CAP , ELECT	10UF 50V
C645	CCEA1HH100T	CAP , ELECT	10UF 50V
C671	CCEA1CH101T	CAP , ELECT	100UF 16V
C673	CCEA1HH100T	CAP , ELECT	10UF 50V
C676	CCEA1CH101T	CAP , ELECT	100UF 16V
C678	CCEA1CH101T	CAP , ELECT	100UF 16V
BN14	CJP17GA117ZY	WAFER	WAFER
BN15	CJP15GB113ZY	WAFER	WAFER
BN81	CJP44TT212ZB	PIN , HEADER (2.00MM PITCH)	44PIN, 2MM PITCH
CN41	CJP06GA19ZY	WAFER , STRAIGHT DVD LOADE	WAFER
CN42	CJP07GB113ZY	WAFER , CARD CABLE	WAFER
CN43	CJP03GB03ZY	WAFER	WAFER
IC62	HVIMC7809C	I.C , REGULATOR	FAIRCHILD
JK40	CJJ9R001Z	JACK , (S-VIDEO + CVBS)	JACK
JK41	CJJ9R001Z	JACK , (S-VIDEO + CVBS)	JACK

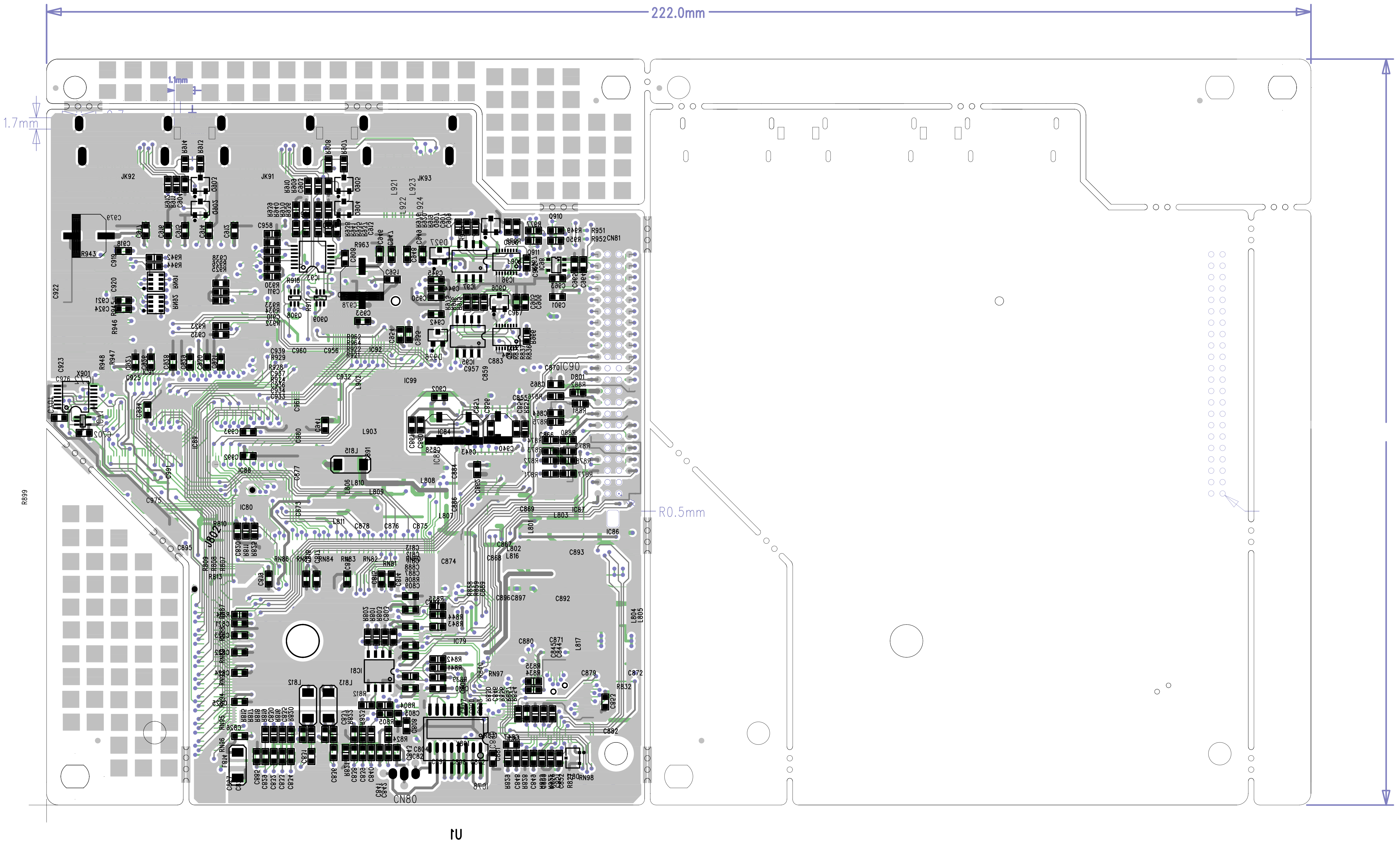
JK62	CJJ4R045Z	JACK , BOARD	JACK
JK69	CJJ4R045Z	JACK , BOARD	JACK

HUDSON JACK PCB ASSY

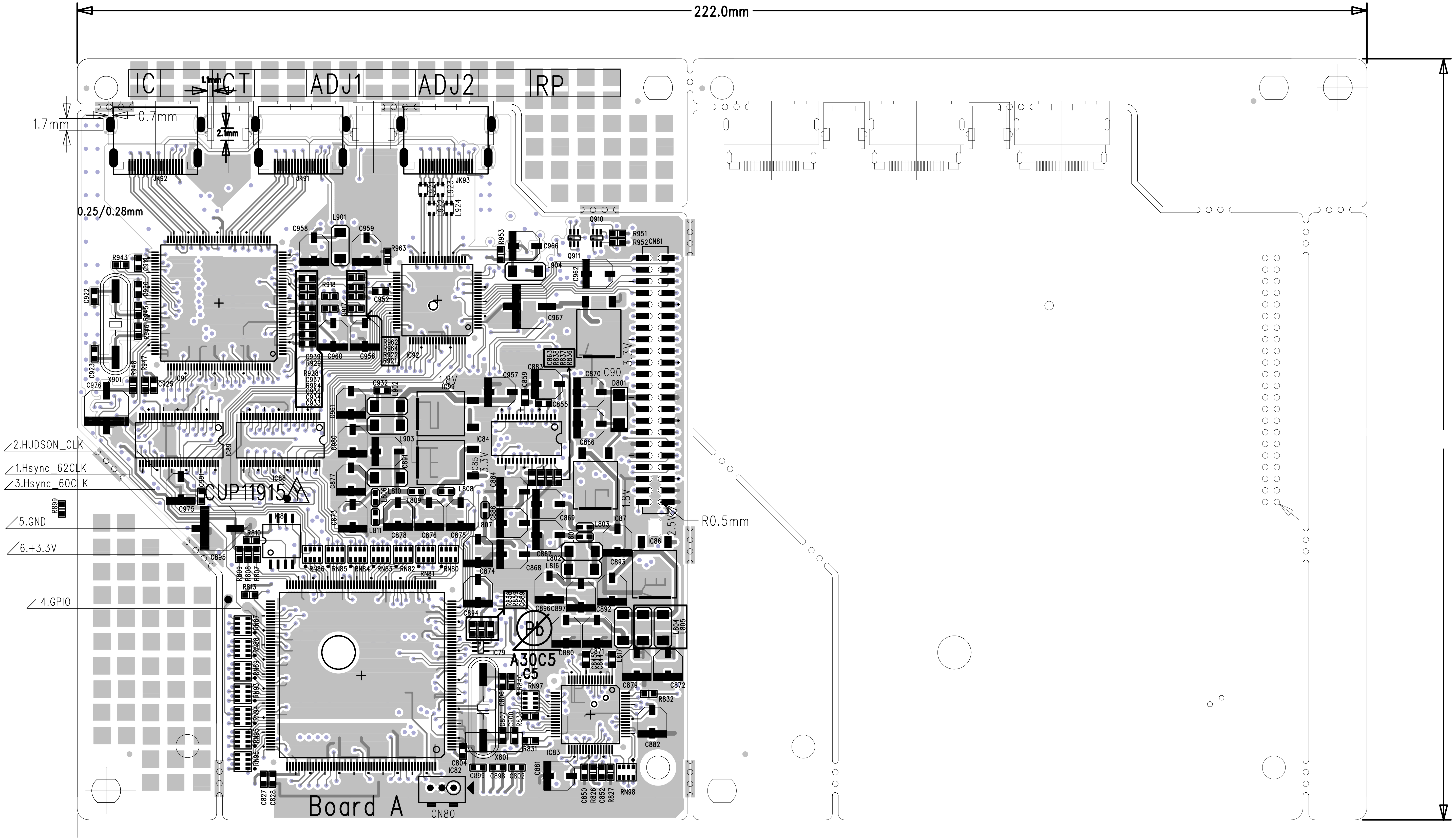
Ref. #	Part Number	Description	Value
	CHG1A363	RUBBER	RUBBER
	CUP11988Z	PCB , HUDSON JACK(FR-4)	FR-4
C801	CCUS1H104KC	CAP , CHIP	0.1UF
C802	CCUS1H104KC	CAP , CHIP	0.1UF
IC81	HVIKIC7SZ08FU	I.C ,INPUT AND GATE	KEC
IC82	CVI74LCX74TTR	I.C, D-FLIP FLOP	ST
BN81	CWBAVR347BN81	WIRE ASS'Y (2mm Pitch, 40mm)	2MM PITCH, 40MM

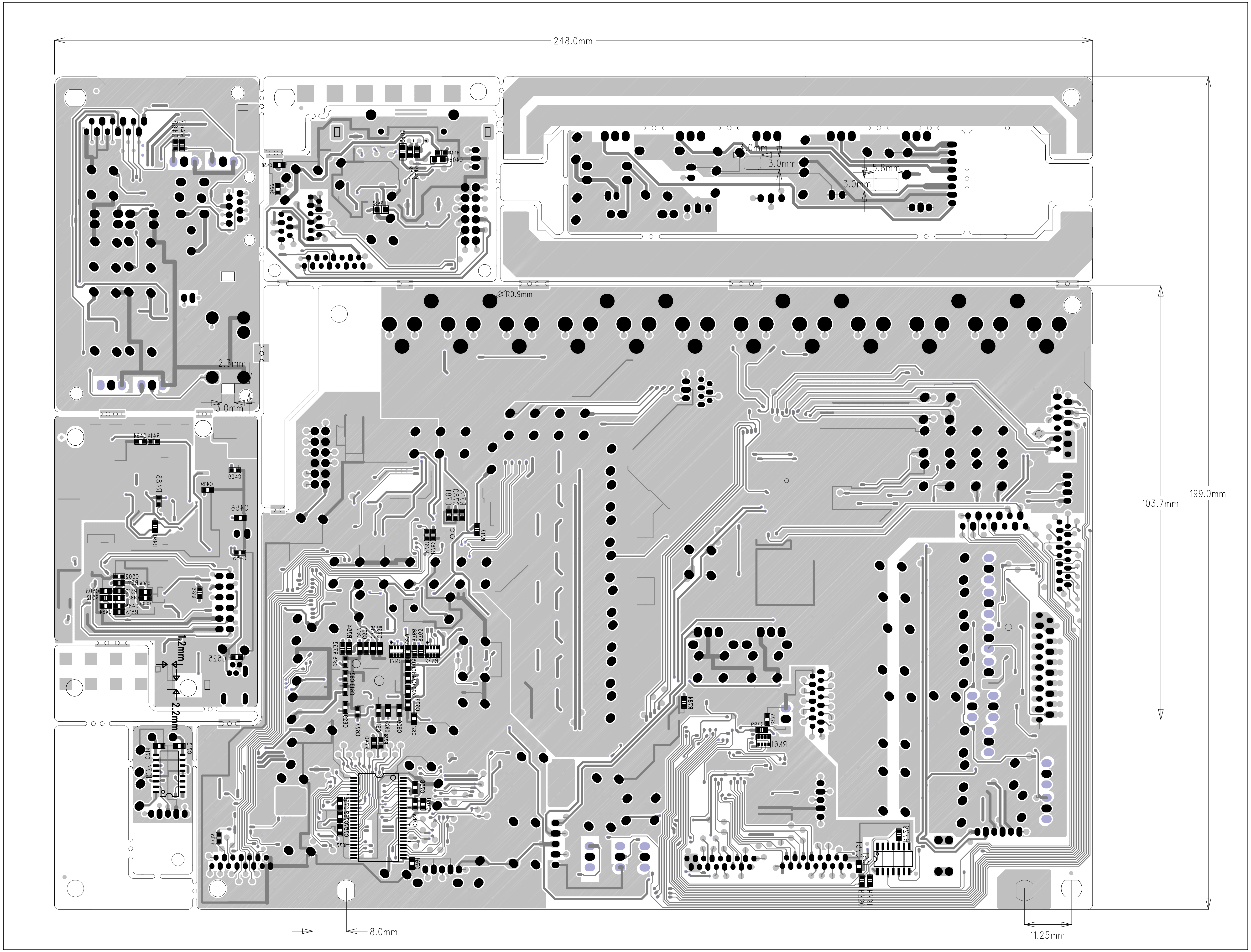

247.0mm
168.0mm
CUP11916
DIPPING
CUP11916
CENTER BAR
CUP11916
CENTER BAR
CUP11916-1
CUP11916-2
CUP11916-3
CUP11916-4
CUP11916-5
CUP11916-6
CUP11916-7
harman/kardon
AVR345
AVR245
AVR145
AVR144
AVR132
IC ICT ADJ1 ADJ2 RP
SL/CEN CH ONLY
L7805CP
L7905CP
L7812CP
L7815CP
L7915CP
★ IC95 Option
AVR145/245
146/147/247/347
: L7812CP
AVR132/230, 144
: NJM7809
CN85: From XM PCB
CN89: From Main PCB
BN43(3P)
AVR347 ONLY
AVR347 J605 : 10 MM
CAUTION :
REPLACE FUSIBLE RESISTOR WITH SAME TYPE AND
RATING FUSIBLE RESISTOR.
JK74
JK75
JK76
JK77
JK78
JK79
JK94
JK95
JK96
JK99
BN17
BN20
BN22
BN95
BN96
BN99
CN19
CN20
CN81
CN88
CN89
CN95
CN96
CN98
CN99
IC89
IC90
IC91
IC97
IC98
D991
D992
ET04
ET05
C5

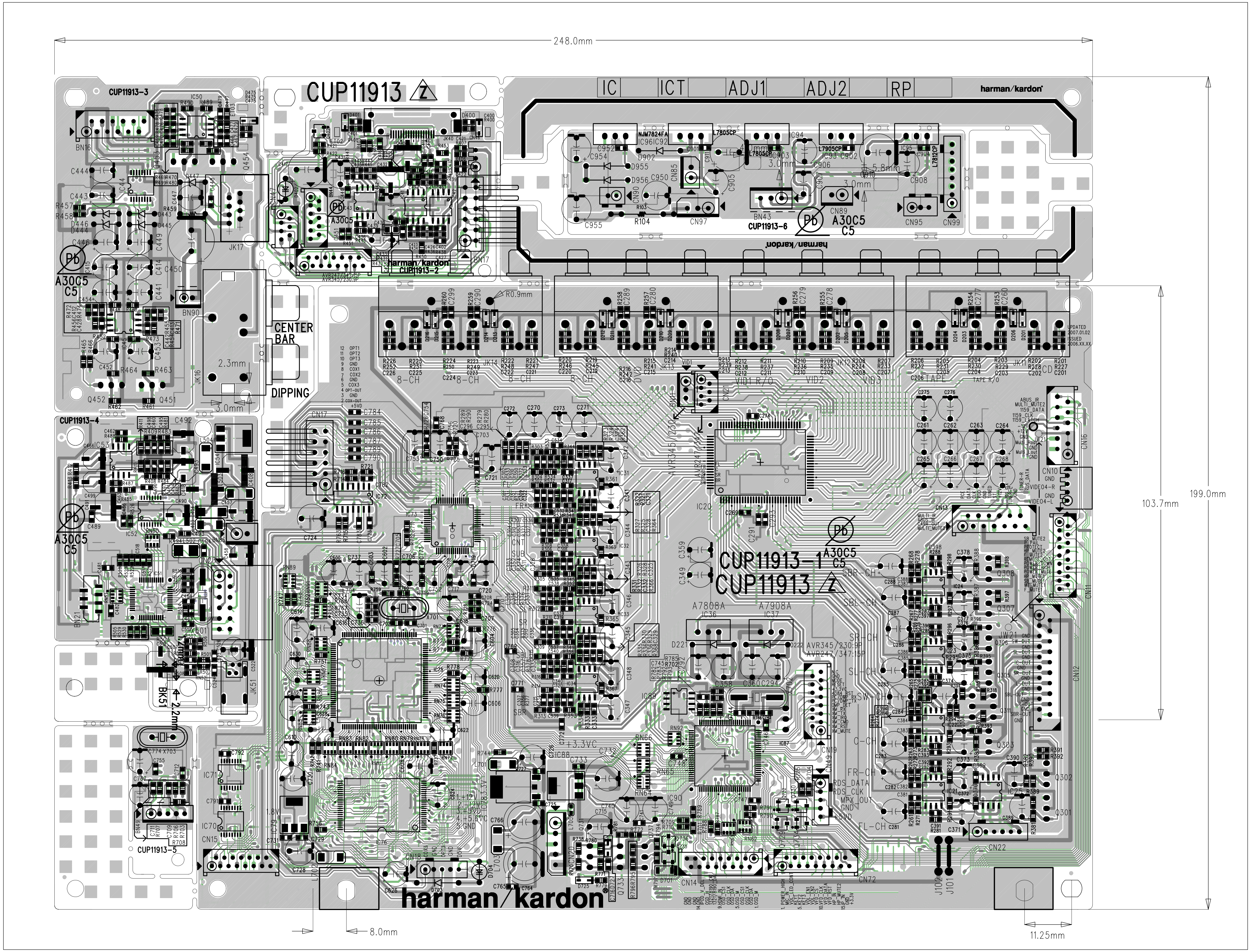
AVR145 POWER_W_1226.pcb - Thu Mar 15 11:24:23 2007

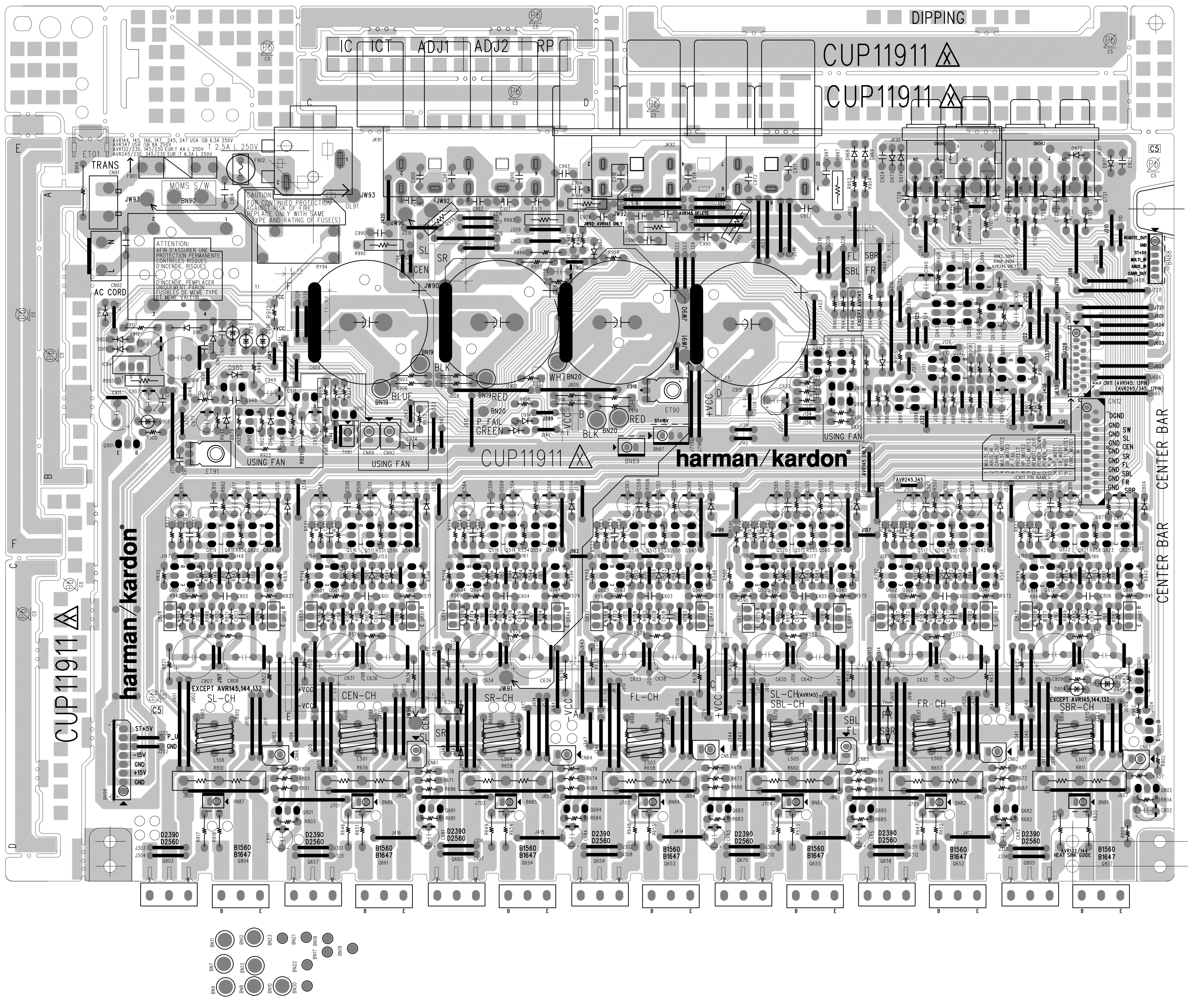

222.0mm
1.7mm
1.1mm
R0.5mm
JK92
JK91
JK93
CN81
CN80
IC90
IC99
IC80
IC81
IC79
X901
R899
U1

AVR347 harman/kardon

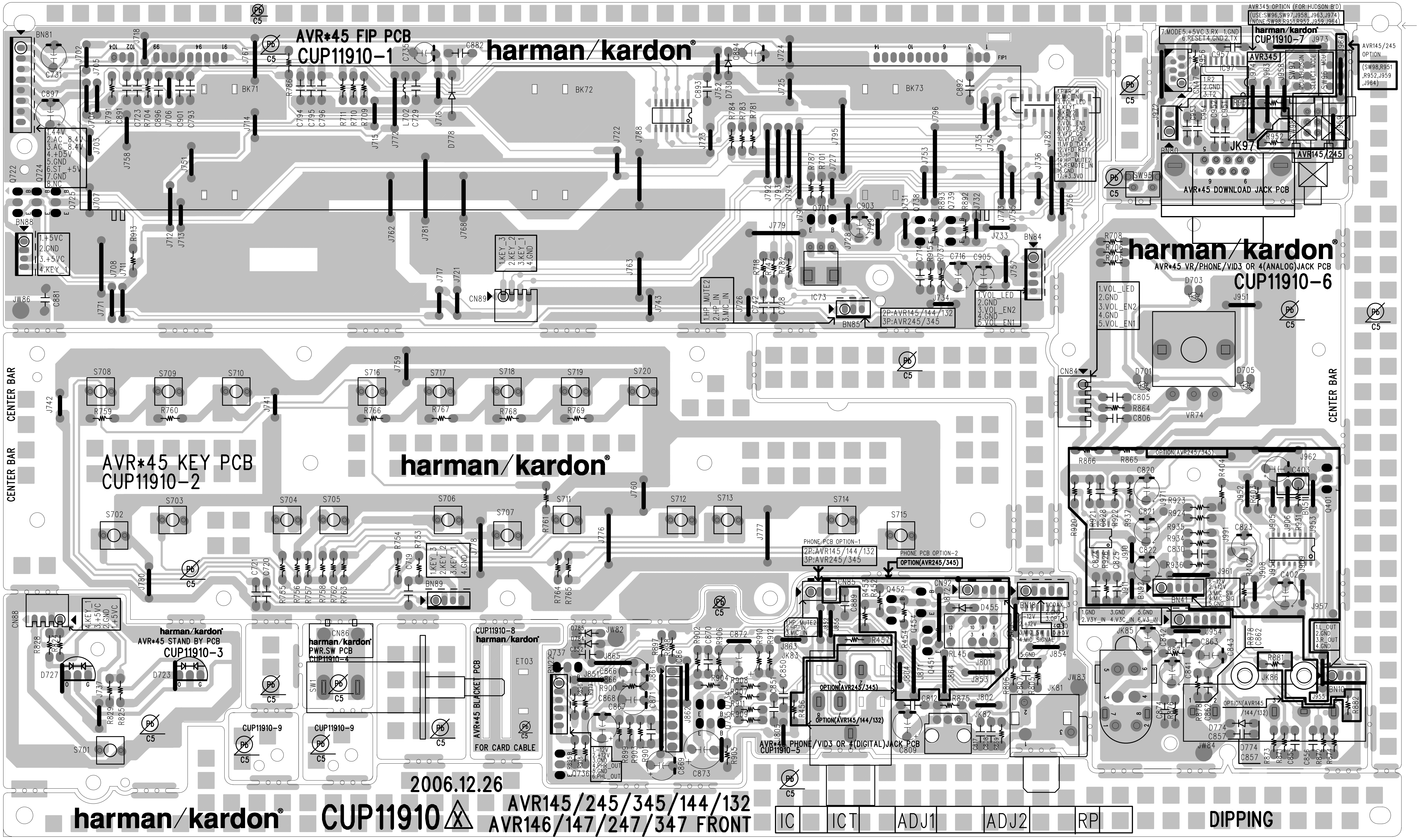

222.0mm
IC
CT
ADJ1
ADJ2
RP
1.1mm
0.7mm
1.7mm
2.1mm
0.25/0.28mm
JK92
JK91
JK93
2.HUDSON_CLK
1.Hsync_62CLK
3.Hsync_60CLK
5.GND
6.+3.3V
4.GPIO
CUP11915-Y
IC91
IC92
IC89
IC88
IC84
IC99
IC90
IC87
IC86
IC83
IC82
IC81
IC79
X901
X801
CN81
CN80
R0.5mm
3.3V
1.8V
2.5V
A30C5
C5
Pb
Board A

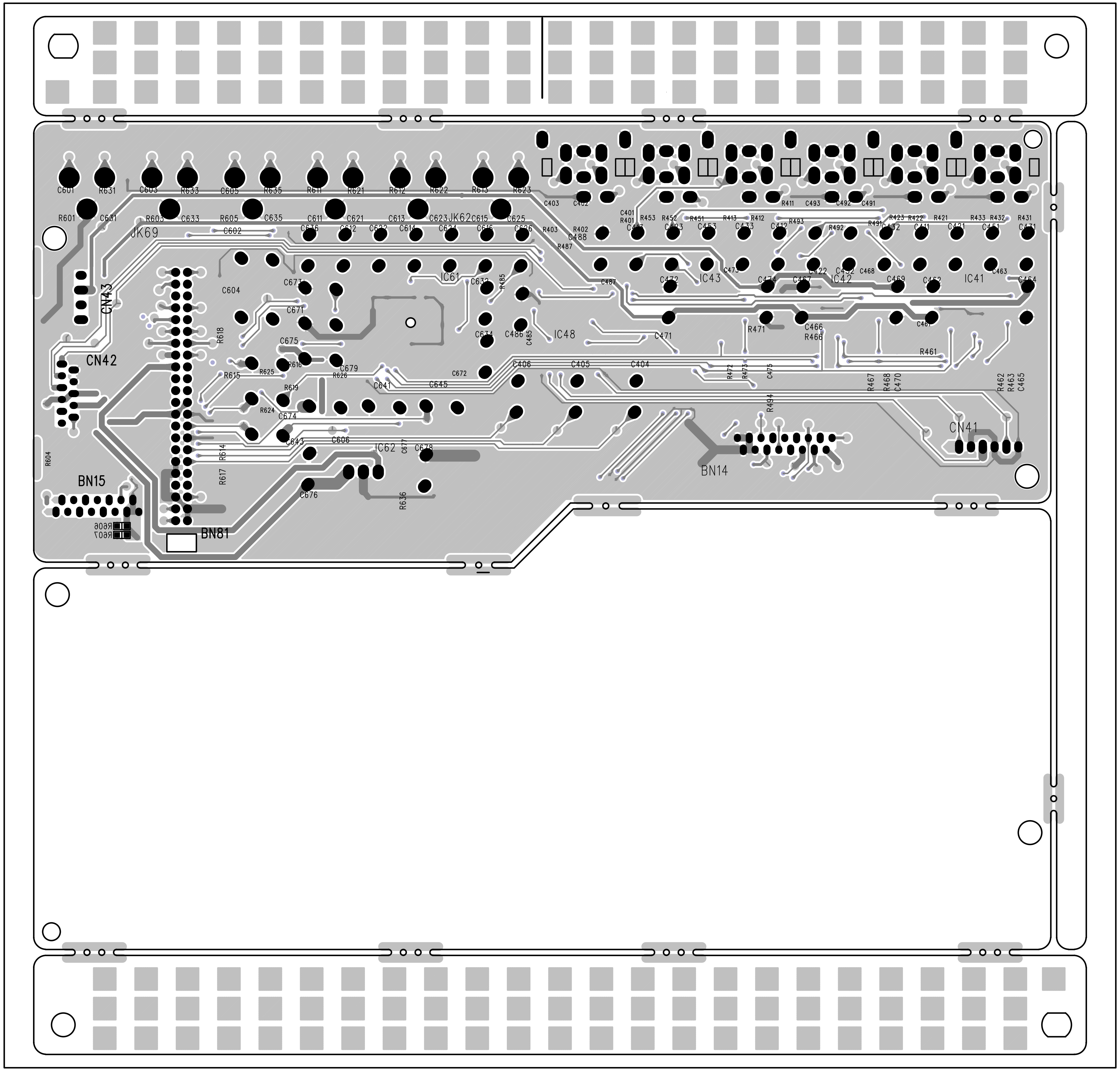

248.0mm
199.0mm
103.7mm
R0.9mm
4.0mm
3.0mm
5.8mm
3.0mm
2.3mm
3.0mm
1.2mm
2.2mm
8.0mm
11.25mm

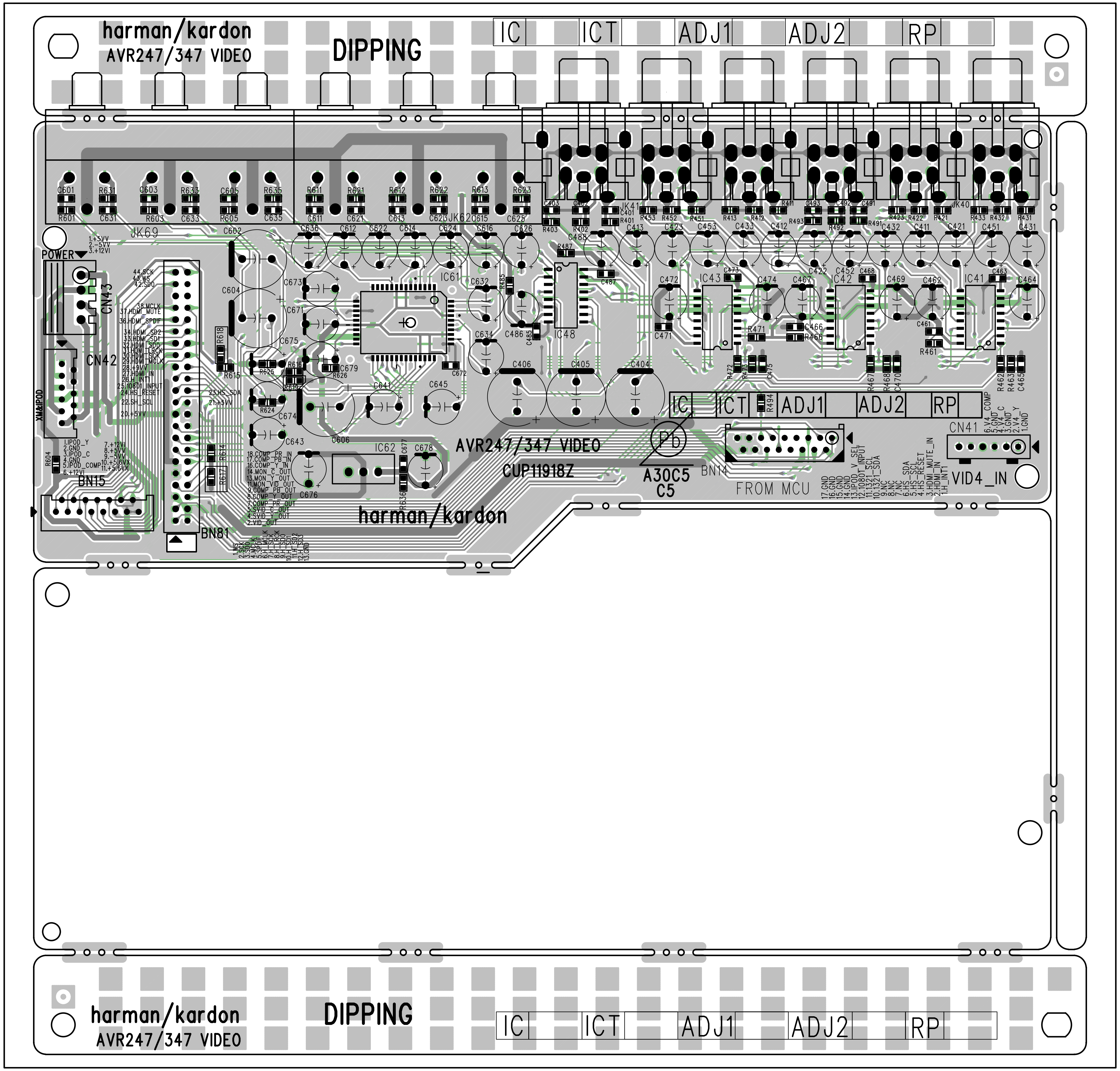

248.0mm
199.0mm
103.7mm
8.0mm
11.25mm
CUP11913
CUP11913-1
CUP11913-2
CUP11913-3
CUP11913-4
CUP11913-5
CUP11913-6
IC
ICT
ADJ1
ADJ2
RP
harman/kardon
A30C5
C5
CENTER BAR
DIPPING
2.3mm
3.0mm
2.2mm
R0.9mm
8-CH
DVD
VID1 R/O
VID2
VID3
TAPE
CD
TAPE R/O
UPDATED 2007.01.02
ISSUED 2006.XX.XX
A7808A
A7908A
AVR345/230:9P
AVR247/347:15P
3.3VC
SBR-CH
SBL-CH
SR-CH
SL-CH
SW-CH
C-CH
FR-CH
FL-CH
RDS_DATA
RDS_CLK
MPX_OUT
GND
+5VD
CN12
CN14
CN15
CN16
CN17
CN22
CN72
J101
J102
JK16
JK17
JK51
BN16
BN21
BN43
BN90
BK51

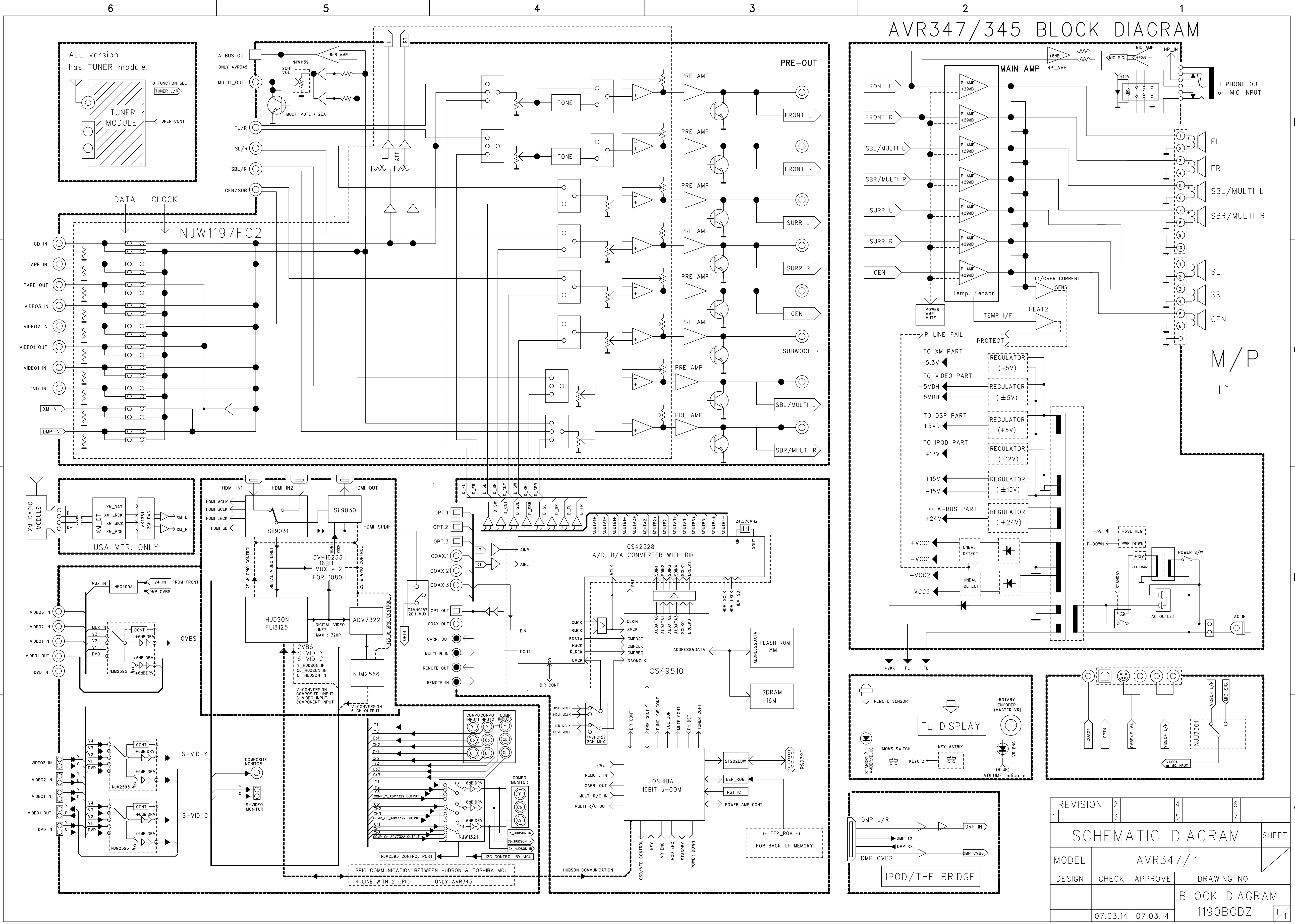

DIPPING
CUP11911
IC
ICT
ADJ1
ADJ2
RP
TRANS
MOMS S/W
AC CORD
AVR144, 145, 146, 147, 245, 247 USA :SB 6.3A 250V
AVR347 USA :SB 8A 250V
AVR132/230, 145/230 EUR:T 4A L 250V
AVR245/230, 345/230 EUR :T 6.3A L 250V
T 2.5A L 250V
CAUTION:
FOR CONTINUED PROTECTION
AGAINST RISK OF FIRE,
REPLACE ONLY WITH SAME
TYPE AND RATING OF FUSE(S)
ATTENTION:
AFIN D'ASSURER UNE
PROTECTION PERMANENTE
CONTRELES RISQUES
D'INCENDIE, REMPLACER
UNIQUEMENT PARUN
FUSIBLES DE MEME TYPE
ET MEME VALEUR
BLK
BLUE
RED
WHT
P_FAIL
GREEN
USING FAN
AVR145 DELETE
EXCEPT AVR145
REMOTE_OUT
GND
ST+5V
MULTI_IR
ABUS_IR
CARR_OUT
CN11 (AVR145: 13PIN)
(AVR245/345: 17PIN)
DGND
SW
SL
CEN
SR
FL
SBL
FR
SBR
CENTER BAR
harman/kardon
AVR245,345
AVR145 ONLY
EXCEPT AVR145,144,132
SL-CH
CEN-CH
SR-CH
FL-CH
SL-CH(AVR145)
SBL-CH
FR-CH
SBR-CH
+VCC
-VCC
ST+5V
P_U
-15V
+15V
D2390
D2560
B1560
B1647
AVR132/144
HEAT SINK GUIDE
B
E

1222_AVR145_MAIN.pcb – Thu Mar 15 11:21:08 2007

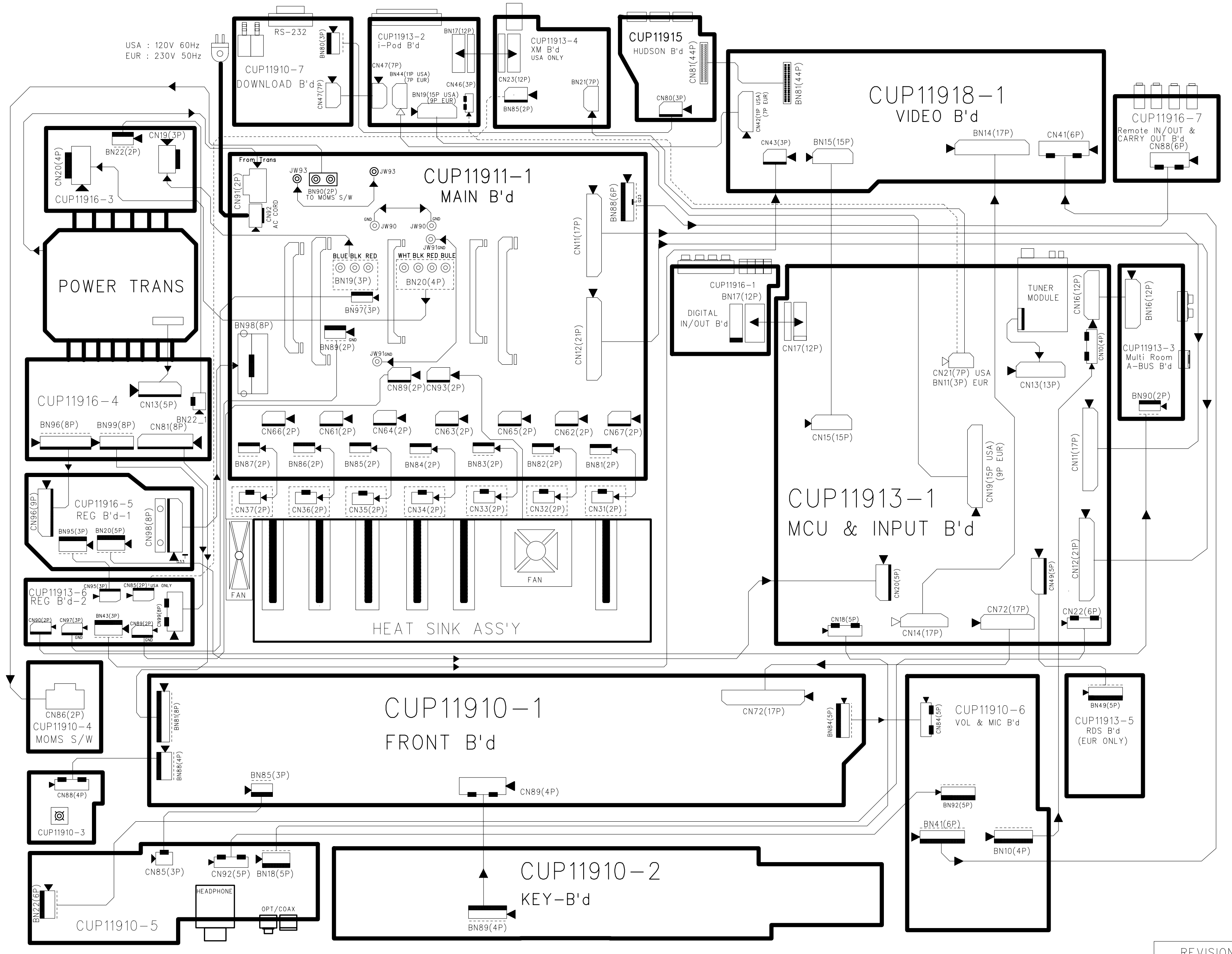

AVR*45 FIP PCB
CUP11910-1
harman/kardon
AVR345 OPTION (FOR HUDSON B'D)
(USE:SW96,SW97,J958,J963,J974)
(NONE:SW98,R951,R952,J959,J964)
CUP11910-7
AVR345
AVR145/245
AVR145/245 OPTION
(SW98,R951,R952,J959,J964)
JK97
AVR*45 DOWNLOAD JACK PCB
AVR*45 VR/PHONE/VID3 OR 4(ANALOG)JACK PCB
CUP11910-6
CENTER BAR
AVR*45 KEY PCB
CUP11910-2
PHONE PCB OPTION-1
2P:AVR145/144/132
3P:AVR245/345
PHONE PCB OPTION-2
OPTION(AVR245/345)
OPTION(AVR145/144/132)
AVR*45 PHONE/VID3 OR 4(DIGITAL)JACK PCB
CUP11910-5
AVR*45 STAND BY PCB
CUP11910-3
PWR.SW PCB
CUP11910-4
CUP11910-8
AVR*45 BLACKET PCB
FOR CARD CABLE
CUP11910-9
CUP11910-9
2006.12.26
CUP11910
AVR145/245/345/144/132
AVR146/147/247/347 FRONT
IC
ICT
ADJ1
ADJ2
RP
DIPPING
Pb C5


JK69
JK62
CN43
CN42
CN41
BN15
BN81
BN14
IC61
IC62
IC48
IC43
IC42
IC41
C601
R631
C603
R633
C605
R635
R611
R621
R612
R622
R613
R623
R601
C631
R603
C633
R605
C635
C611
C621
C613
C623
C615
C625
C602
C604
C671
C673
C675
C679
C672
C641
C645
C674
C643
C606
C676
C677
C678
R636
R604
R606
R607
R614
R617
R618
R615
R625
R616
R619
R624
R626
C403
C402
C401
R401
R402
R403
C488
R487
R485
C486
C485
C487
C406
C405
C404
C471
C472
C473
C474
C475
C466
R466
C467
C468
C469
C462
C461
C463
C464
R461
R462
R463
C465
R467
R468
C470
R471
R472
R473
R494
R411
R412
R413
R421
R422
R423
R431
R432
R433
R451
R452
R453
R491
R492
R493
C491
C492
C493
C411
C412
C413
C421
C422
C431
C432
C451
C452
C453


harman/kardon
AVR247/347 VIDEO
DIPPING
IC
ICT
ADJ1
ADJ2
RP
JK69
JK62
JK41
JK40
POWER
CN43
CN42
XM&IPOD
BN15
BN81
IC61
IC62
IC48
IC43
IC42
IC41
CN41
BN14
FROM MCU
VID4_IN
AVR247/347 VIDEO
CUP11918Z
A30C5
C5
Pb
harman/kardon
harman/kardon
AVR247/347 VIDEO
DIPPING
IC
ICT
ADJ1
ADJ2
RP


AVR347/345 BLOCK DIAGRAM
6
5
4
3
2
1
D
C
B
A
ALL version
has TUNER module.
TUNER MODULE
TO FUNCTION SEL
TUNER L/R
TUNER CONT
A-BUS OUT
ONLY AVR345
MULTI_OUT
NJW1159
2CH VOL
6dB AMP
MULTI_MUTE * 2EA
FL/R
SL/R
SBL/R
CEN/SUB
LT
RT
ATT
TONE
PRE AMP
PRE-OUT
FRONT L
FRONT R
SURR L
SURR R
CEN
SUBWOOFER
SBL/MULTI L
SBR/MULTI R
DATA
CLOCK
NJW1197FC2
CD IN
TAPE IN
TAPE OUT
VIDEO3 IN
VIDEO2 IN
VIDEO1 OUT
VIDEO1 IN
DVD IN
XM IN
DMP IN
MAIN AMP
P-AMP +29dB
Temp. Sensor
+8dB
HP_AMP
MIC SIG.
+40dB
MIC_AMP
HP_IN
+12V
H_PHONE OUT or MIC_INPUT
FL
FR
SBL/MULTI L
SBR/MULTI R
SL
SR
CEN
DC/OVER CURRENT SENS
POWER AMP MUTE
TEMP I/F
HEAT2
P_LINE_FAIL
PROTECT
M/P
TO XM PART
+5.3V
TO VIDEO PART
+5VDH
-5VDH
TO DSP PART
+5VD
TO IPOD PART
+12V
+15V
-15V
TO A-BUS PART
+24V
REGULATOR (+5V)
REGULATOR (±5V)
REGULATOR (+12V)
REGULATOR (±15V)
REGULATOR (+24V)
+VCC1
-VCC1
+VCC2
-VCC2
UNBAL DETECT
+5VL
+5VL REG
P-DOWN
PWR DOWN
SUB TRANS
STANDBY
POWER S/W
AC OUTLET
AC IN
+VKK
FL
XM_RADIO MODULE
XM_DT
XM_DAT
XM_LRCK
XM_BICK
XM_MCK
AK4384 2CH DAC
XM_L
XM_R
USA VER. ONLY
HDMI_IN1
HDMI_IN2
HDMI_OUT
HDMI MCLK
HDMI SCLK
HDMI LRCK
HDMI SD
Sil9031
Sil9030
HDMI_SPDIF
I2S & GPIO CONTROL
DIGITAL VIDEO LINE1
3VH16233 16BIT MUX * 2 FOR 1080i
HUDSON FLI8125
DIGITAL VIDEO LINE2 MAX : 720P
ADV7322
NJM2566
CVBS
S-VID Y
S-VID C
Y_HUDSON IN
Cb_HUDSON IN
Cr_HUDSON IN
V-CONVERSION COMPOSITE, INPUT S-VIDEO INPUT COMPONENT INPUT
V-CONVERSION 6 CH OUTPUT
MUX IN
HFC4053
V4 IN
FROM FRONT
DMP CVBS
CONT
+6dB DRV
NJM2595
VIDEO3 IN
VIDEO2 IN
VIDEO1 IN
VIDEO1 OUT
DVD IN
S-VID Y
S-VID C
COMPOSITE MONITOR
S-VIDEO MONITOR
COMPO INPUT1
COMPO INPUT2
COMP INPUT3
COMPO MONITOR
COMP_Y_ADV7322 OUTPUT
COMP_Cb_ADV7322 OUTPUT
COMP_Cr_ADV7322 OUTPUT
6dB DRV
NJW1321
Y_HUDSON IN
Cb_HUDSON IN
Cr_HUDSON IN
I2C CONTROL BY MCU
NJM2595 CONTROL PORT
SPIC COMMUNICATION BETWEEN HUDSON & TOSHIBA MCU
4 LINE WITH 2 GPIO
ONLY AVR345
HUDSON COMMUNICATION
D_FL
D_FR
D_SL
D_SR
D_CNT
D_SW
D_SBL
D_SBR
OPT.1
OPT.2
OPT.3
COAX.1
COAX.2
COAX.3
74VHC157 2CH MUX
OPT4
OPT OUT
COAX OUT
CARR. OUT
MULTI IR IN
REMOTE OUT
REMOTE IN
ADATA1+
ADATA1-
ADATB1+
ADATB1-
ADATA2+
ADATA2-
ADATB2+
ADATB2-
ADATA3+
ADATA3-
ADATB3+
ADATB3-
ADATB4+
ADATB4-
24.576MHz
CS42528
A/D, D/A CONVERTER WITH DIR
AINR
AINL
DIN
DOUT
MCLK
RST
XIN
XOUT
DIR CONT
XMCK
RMCK
RDATA
RBCK
RLRCK
OMCK
CLKIN
XMCK
CMPDAT
CMPCLK
CMPREQ
DAOMCLK
AUDATA0
AUDATA1
AUDATA2
AUDATA3
SCLK0
LRCLK0
SDIN1
SDIN2
SDIN3
SDIN4
SCLK1
LRCLK1
HDMI SCLK
HDMI LRCK
HDMI SD
ADDRESS&DATA
CS49510
FLASH ROM 8M
SDRAM 16M
DSP MCLK
HDMI MCLK
DIR MCLK
HDMI MCLK
74VHC157 2CH MUX
DIR CONT
DSP CONT
FUNC. SW CONT
VOL CONT
MUTE CONT
PH DET
TUNER CONT
TOSHIBA 16BIT u-COM
FWE
REMOTE IN
CARR. OUT
MULTI R/C IN
MULTI R/C OUT
ST202EBW
RS232C
EEP_ROM
RST IC
POWER AMP CONT
** EEP_ROM **
FOR BACK-UP MEMORY.
OSD/VFD CONTROL
KEY
VR ENC
MOD ENC
STANDBY
POWER DOWN
REMOTE SENSOR
FL DISPLAY
ROTARY ENCODER (MASTER VR)
STANDBY AMBER/BLUE
MOMS SWITCH
KEY MATRIX
KEY0~2
VR ENC
(BLUE) VOLUME Indicator
COAX4
OPT4
CVBS4 S-V4
VIDEO4 L/R
NJU7301
VIDEO4 L/R
MIC SIG.
VIDEO4 or MIC INPUT
DMP L/R
DMP IN
DMP TX
DMP RX
DMP CVBS
DMP CVBS
IPOD/THE BRIDGE
REVISION
1
2
3
4
5
6
7
SCHEMATIC DIAGRAM
SHEET
1
MODEL
AVR347/7
DESIGN
CHECK
APPROVE
DRAWING NO
BLOCK DIAGRAM
07.03.14
07.03.14
1190BCDZ
1/1

AVR347/345 WIRING DIAGRAM


USA : 120V 60Hz
EUR : 230V 50Hz
RS-232
BN80(3P)
CUP11910-7
DOWNLOAD B'd
CN47(7P)
CUP11913-2
i-Pod B'd
BN17(12P)
CN47(7P)
BN44(11P USA)
(7P EUR)
CN46(3P)
BN19(15P USA)
(9P EUR)
CUP11913-4
XM B'd
USA ONLY
CN23(12P)
BN85(2P)
BN21(7P)
CUP11915
HUDSON B'd
CN81(44P)
CN80(3P)
BN81(44P)
CN42(11P USA)
(7P EUR)
CUP11918-1
VIDEO B'd
CN43(3P)
BN15(15P)
BN14(17P)
CN41(6P)
CUP11916-7
Remote IN/OUT &
CARRY OUT B'd
CN88(6P)
CN20(4P)
BN22(2P)
CN19(3P)
CUP11916-3
POWER TRANS
From Trans
CN91(2P)
CN92
AC CORD
JW93
BN90(2P)
TO MOMS S/W
JW93
CUP11911-1
MAIN B'd
GND
JW90
JW90
GND
JW91GND
BLUE BLK RED
BN19(3P)
WHT BLK RED BULE
BN20(4P)
BN97(3P)
BN98(8P)
BN89(2P)
GND
JW91GND
CN89(2P)
CN93(2P)
BN88(6P)
G23
CN11(17P)
CN12(21P)
CN66(2P)
CN61(2P)
CN64(2P)
CN63(2P)
CN65(2P)
CN62(2P)
CN67(2P)
BN87(2P)
BN86(2P)
BN85(2P)
BN84(2P)
BN83(2P)
BN82(2P)
BN81(2P)
CN37(2P)
CN36(2P)
CN35(2P)
CN34(2P)
CN33(2P)
CN32(2P)
CN31(2P)
FAN
FAN
HEAT SINK ASS'Y
CUP11916-4
CN13(5P)
BN22_1
BN96(8P)
BN99(8P)
CN81(8P)
CN96(9P)
CUP11916-5
REG B'd-1
BN95(3P)
BN20(5P)
CN98(8P)
G33
CUP11913-6
REG B'd-2
CN95(3P)
CN85(2P) USA ONLY
CN99(8P)
CN90(2P)
CN97(3P)
GND
BN43(3P)
CN89(2P)
GND
CUP11916-1
BN17(12P)
DIGITAL
IN/OUT B'd
CN17(12P)
TUNER
MODULE
CN16(12P)
CN10(4P)
BN16(12P)
CUP11913-3
Multi Room
A-BUS B'd
BN90(2P)
CN21(7P) USA
BN11(3P) EUR
CN13(13P)
CN15(15P)
CN19(15P USA)
(9P EUR)
CN11(17P)
CUP11913-1
MCU & INPUT B'd
CN20(5P)
CN49(5P)
CN12(21P)
CN18(5P)
CN14(17P)
CN72(17P)
CN22(6P)
CN86(2P)
CUP11910-4
MOMS S/W
CUP11910-1
FRONT B'd
BN81(8P)
BN88(4P)
BN85(3P)
CN89(4P)
CN72(17P)
BN84(5P)
CUP11910-6
VOL & MIC B'd
CN84(5P)
BN92(5P)
BN41(6P)
BN10(4P)
BN49(5P)
CUP11913-5
RDS B'd
(EUR ONLY)
CN88(4P)
CUP11910-3
CN85(3P)
CN92(5P)
BN18(5P)
HEADPHONE
OPT/COAX
BN22(6P)
CUP11910-5
CUP11910-2
KEY-B'd
BN89(4P)

.14

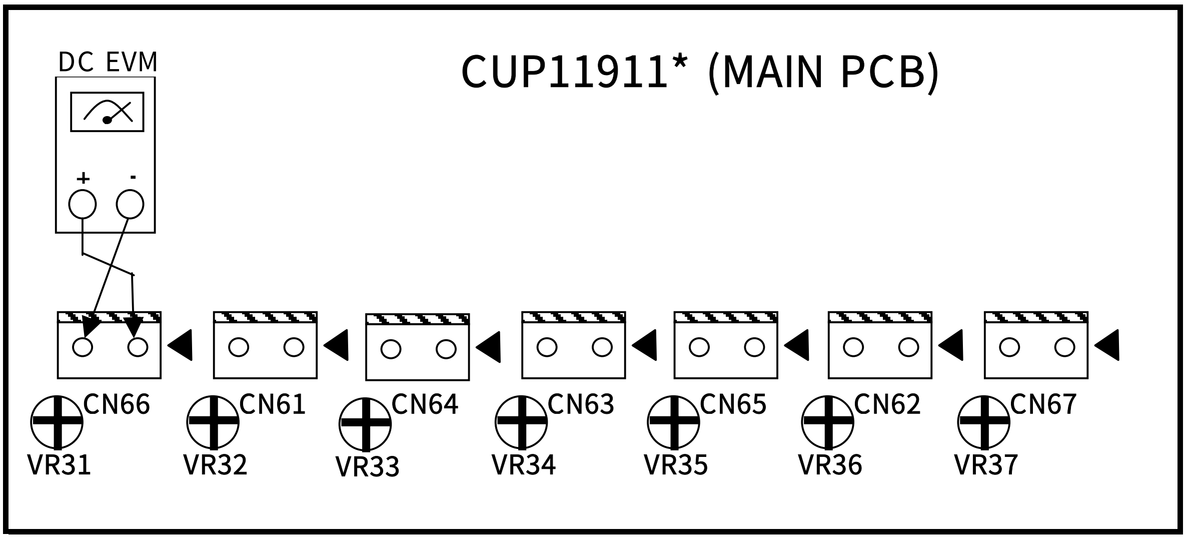
REVISION	2		4		6	
1	3		5		7	

SCHEMATIC DIAGRAM				SHEET
MODEL	AVR347/345			1/1
DESIGN	CHECK	APPROVE	DRAWING NO	
	W.Y.Y	H.	IAGRAM 1190SCDZ	1/1
07.03.14	07.03.14	07.03.14		

AMPLIFIER SECTION BIAS ADJUSTMENT

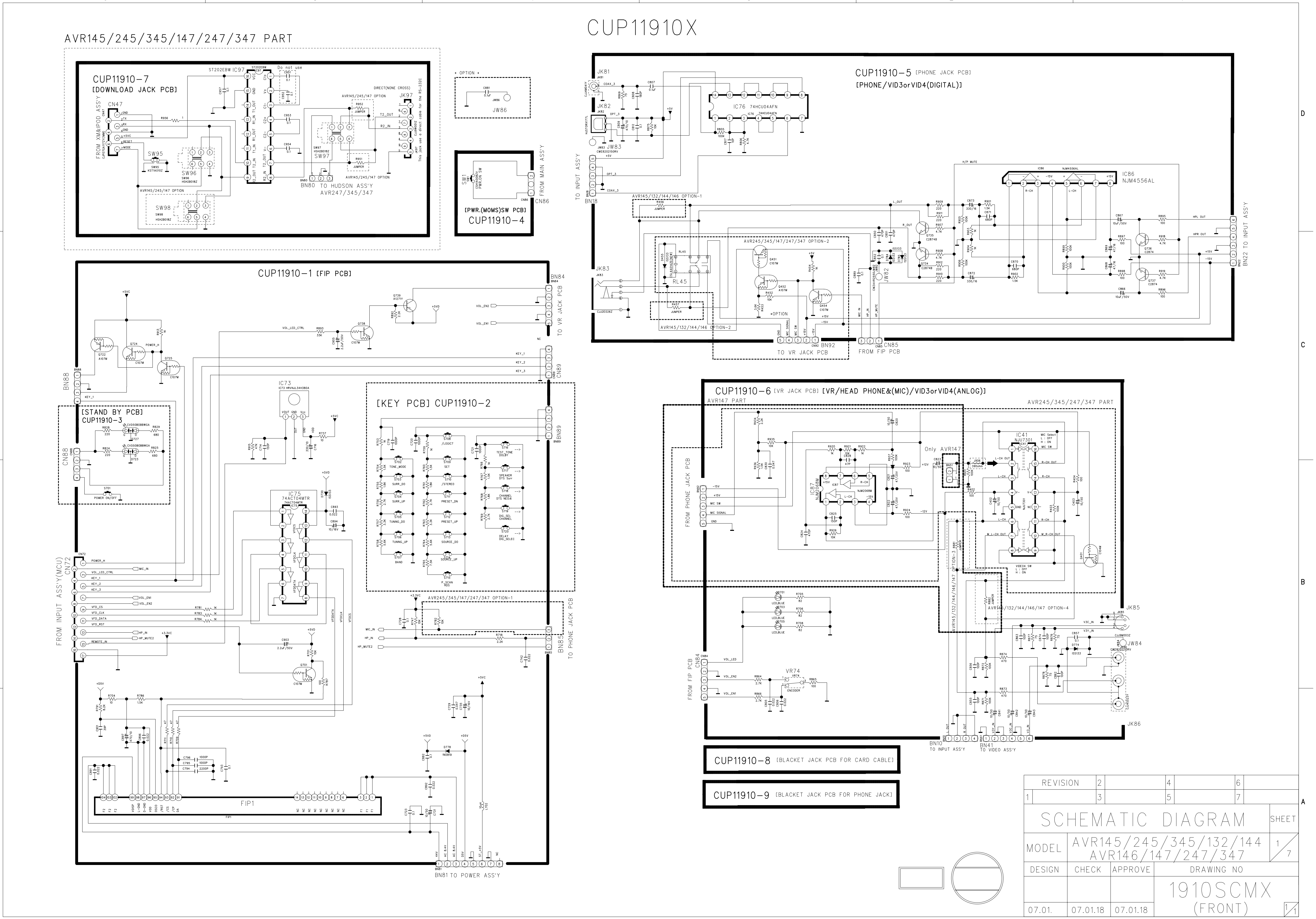
Measurement condition
.No input signal or volume position is minimum.

Standard value
.Ideal current = 48mA (± 5%)
.Ideal DC Voltage = 25.92mV (± 5%)


DC EVM
CUP11911* (MAIN PCB)
+
-
CN66
CN61
CN64
CN63
CN65
CN62
CN67
VR31
VR32
VR33
VR34
VR35
VR36
VR37

DC VOLTMETER ; Connect to
CN66(SL),CN61(CEN),CN64(SR),CN63(FL),CN65(SBL),CN62(FR),CN67(SBR)

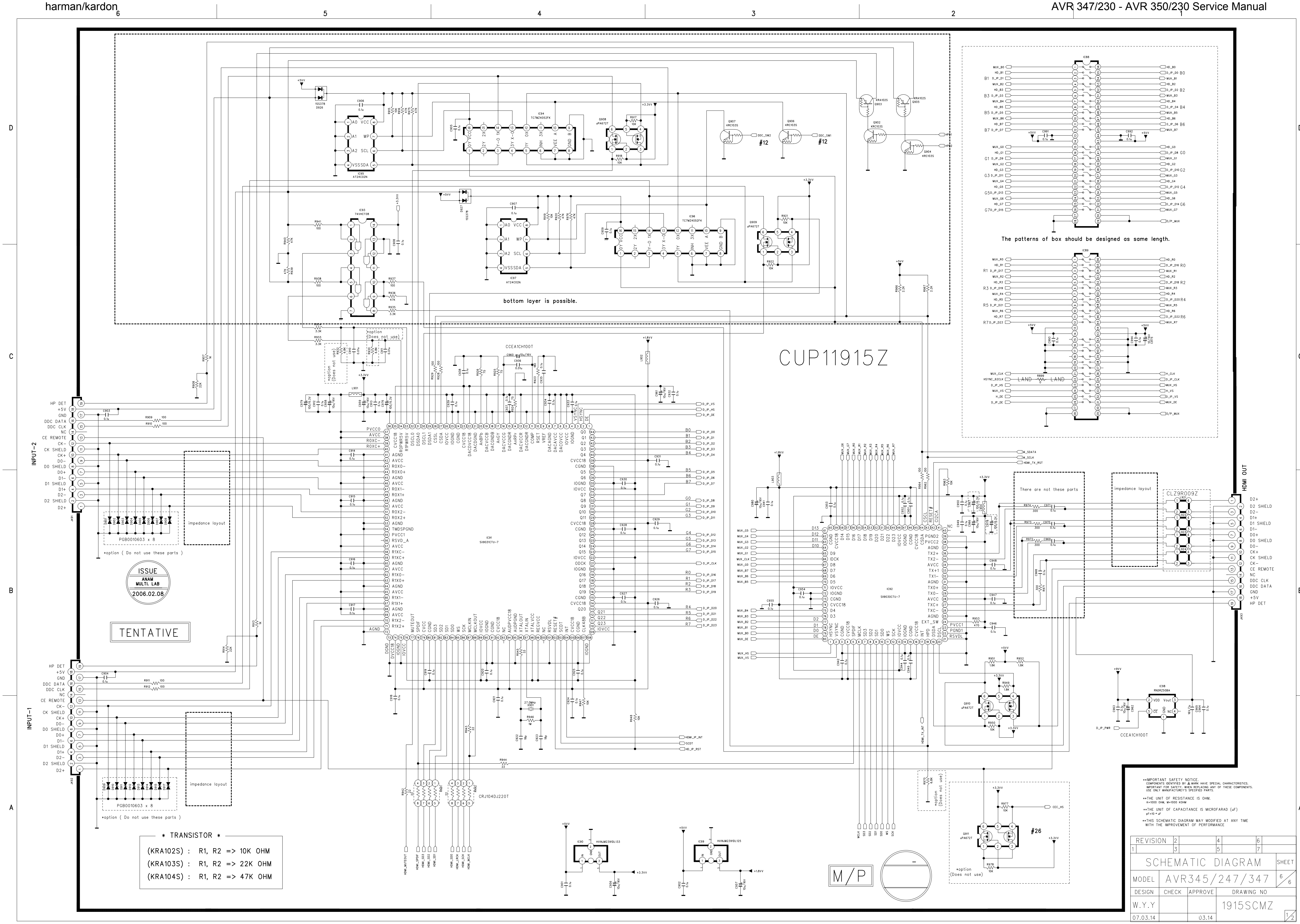
NO.	Channel	Adjust for	Adjustment
1	Front Left	25.92mV (± 5%)	CN63
2	Front Right	25.92mV (± 5%)	CN62
3	Center	25.92mV (± 5%)	CN61
4	Surround Left	25.92mV (± 5%)	CN66
5	Surround Right	25.92mV (± 5%)	CN64
6	Surround Back Left	25.92mV (± 5%)	CN65
7	Surround Back Right	25.92mV (± 5%)	CN67

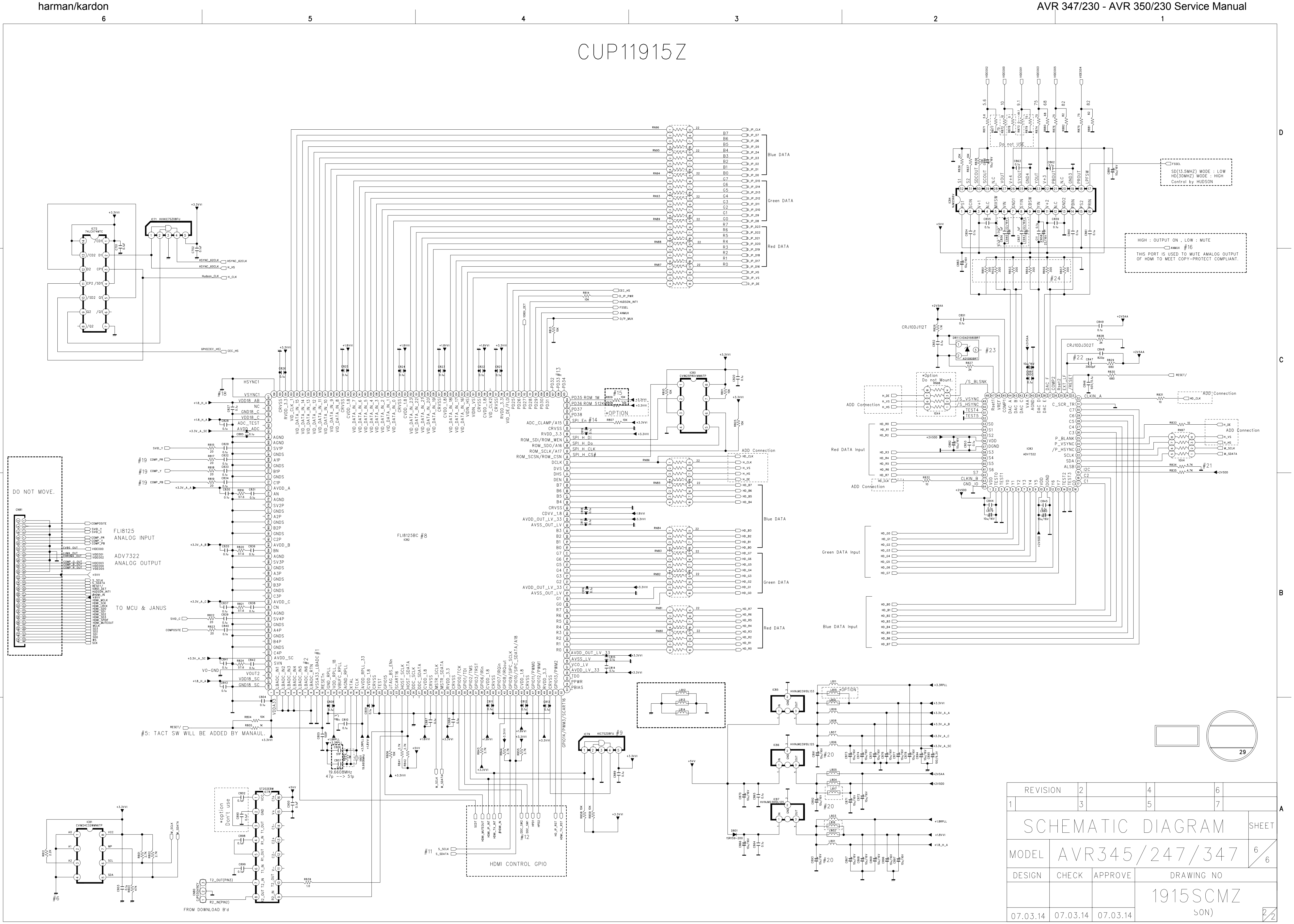

CUP11910X
AVR145/245/345/147/247/347 PART
CUP11910-7
[DOWNLOAD JACK PCB]
FROM XM&iPOD ASS'Y
CN47
IC97
ST202EBW
JK97
SW95
SW96
SW97
SW98
AVR145/245/147 OPTION
BN80 TO HUDSON ASS'Y
AVR247/345/347
JW86
[PWR.(MOMS)SW PCB]
CUP11910-4
FROM MAIN ASS'Y
CN86
CUP11910-5 [PHONE JACK PCB]
[PHONE/VID3orVID4(DIGITAL)]
JK81
JK82
JW83
JK83
IC76 74HCU04AFN
IC86 NJM4556AL
TO INPUT ASS'Y
BN18
RL45
BN92
TO VR JACK PCB
CN85
FROM FIP PCB
BN22 TO INPUT ASS'Y
AVR245/345/147/247/347 OPTION-2
AVR145/132/144/146 OPTION-1
AVR145/132/144/146 OPTION-2
CUP11910-1 [FIP PCB]
BN84
TO VR JACK PCB
CN89
BN88
[STAND BY PCB]
CUP11910-3
CN88
IC73
IC75 74ACT04MTR
[KEY PCB] CUP11910-2
BN89
FROM INPUT ASS'Y(MCU)
CN72
AVR245/345/147/247/347 OPTION-1
BN85
TO PHONE JACK PCB
FIP1
BN81 TO POWER ASS'Y
CUP11910-6 [VR JACK PCB] [VR/HEAD PHONE&(MIC)/VID3orVID4(ANLOG)]
AVR147 PART
AVR245/345/247/347 PART
FROM PHONE JACK PCB
IC87 NJM2068M
IC41 NJU7301
Only AVR147
AVR145/132/144/146/147 OPTION-3
AVR145/132/144/146/147 OPTION-4
JK85
JW84
JK86
FROM FIP PCB
CN84
VR74
BN10 TO INPUT ASS'Y
BN41 TO VIDEO ASS'Y
CUP11910-8 [BLACKET JACK PCB FOR CARD CABLE]
CUP11910-9 [BLACKET JACK PCB FOR PHONE JACK]

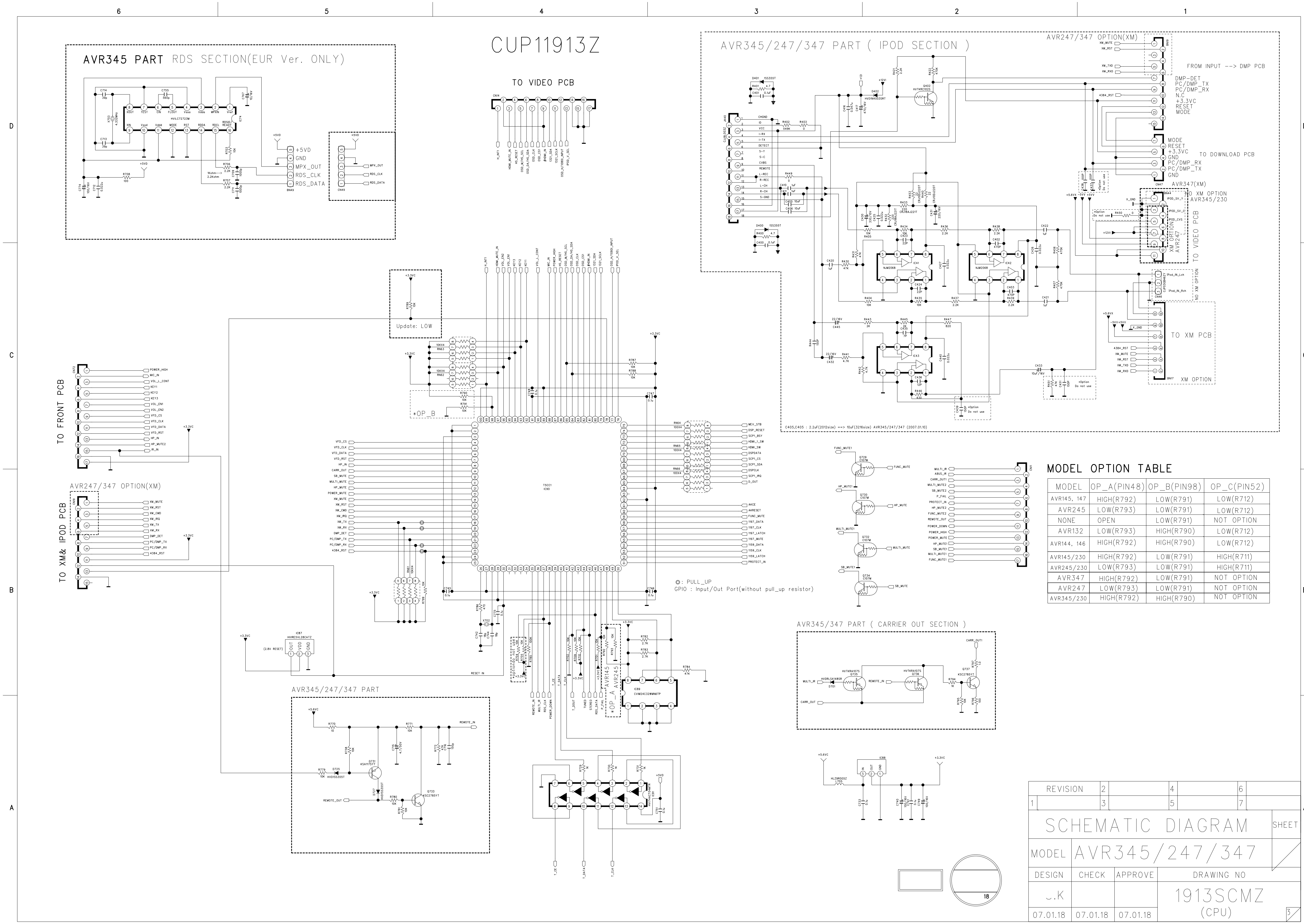
REVISION	2		4		6
1		3		5		7

SCHEMATIC DIAGRAM
SHEET 1/7
MODEL AVR145/245/345/132/144 AVR146/147/247/347

DESIGN	CHECK	APPROVE	DRAWING NO
07.01.	07.01.18	07.01.18	1910SCMX (FRONT) 1/1


6
5
4
3
2
1
D
C
B
A
CUP11915Z
bottom layer is possible.
The patterns of box should be designed as same length.
INPUT-2
INPUT-1
HDMI OUT
HP DET
+5V
GND
DDC DATA
DDC CLK
NC
CE REMOTE
CK-
CK SHIELD
CK+
D0-
D0 SHIELD
D0+
D1-
D1 SHIELD
D1+
D2-
D2 SHIELD
D2+
IC91
SI9031CTU-7
IC92
SI9030CTU-7
IC93
74VHCT08
IC94
TC7MZ4052FK
IC95
AT24C02N
IC96
TC7MZ4052FK
IC97
AT24C02N
IC88
IC89
IC98
RN5RZ50BA
IC90
HVNJM2391DL133
IC99
HVNJM2391DL125
CLZ9R009Z
PGB0010603 x 8
*option (Do not use these parts)
impedance layout
There are not these parts
*option (Does not use)
ISSUE
ANAM
MULTI LAB
2006.02.08
TENTATIVE
* TRANSISTOR *
(KRA102S) : R1, R2 => 10K OHM
(KRA103S) : R1, R2 => 22K OHM
(KRA104S) : R1, R2 => 47K OHM
CRJ104DJ220T
CCEA1CH100T
M/P
#12
#26
**IMPORTANT SAFETY NOTICE.
COMPONENTS IDENTIFIED BY ⚠ MARK HAVE SPECIAL CHARACTERISTICS.
IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS.
USE ONLY MANUFACTUREY'S SPECIFIED PARTS.
**THE UNIT OF RESISTANCE IS OHM.
K=1000 OHM, M=1000 KOHM
**THE UNIT OF CAPACITANCE IS MICROFARAD (uF)
pF=10⁻⁶ uF
**THIS SCHEMATIC DIAGRAM MAY MODIFIED AT ANY TIME
WITH THE IMPROVEMENT OF PERFORMANCE
REVISION 1 2 3 4 5 6 7
SCHEMATIC DIAGRAM
SHEET 6/6
MODEL AVR345/247/347
DESIGN CHECK APPROVE DRAWING NO
W.Y.Y
07.03.14
03.14
1915SCMZ
1/2


6
5
4
3
2
1
D
C
B
A
CUP11915Z
Blue DATA
Green DATA
Red DATA
DO NOT MOVE.
FLI8125
ANALOG INPUT
ADV7322
ANALOG OUTPUT
TO MCU & JANUS
FLI8125BC #8
ADD Connection
Red DATA Input
Green DATA Input
Blue DATA Input
SD(13.5MHZ) MODE : LOW
HD(30MHZ) MODE : HIGH
Control by HUDSON
HIGH : OUTPUT ON , LOW : MUTE
THIS PORT IS USED TO MUTE AMALOG OUTPUT
OF HDMI TO MEET COPY-PROTECT COMPLIANT.
Do not USE
CRJ10DJ112T
CRJ10DJ302T
ADV7322
HDMI CONTROL GPIO
#5: TACT SW WILL BE ADDED BY MANAUL.
19.6608MHz
47p ---> 51p
*option
Don't use
FROM DOWNLOAD B'd
29
REVISION
SCHEMATIC DIAGRAM
SHEET
MODEL
AVR345/247/347
6/6
DESIGN
CHECK
APPROVE
DRAWING NO
1915SCMZ
07.03.14
07.03.14
07.03.14


CUP11913Z
AVR345 PART RDS SECTION(EUR Ver. ONLY)
TO VIDEO PCB
AVR345/247/347 PART (IPOD SECTION)
AVR247/347 OPTION(XM)
FROM INPUT --> DMP PCB
TO DOWNLOAD PCB
AVR347(XM)
NO XM OPTION
AVR345/230
TO VIDEO PCB
XM OPTION
TO XM PCB
C405,C405 : 2.2uF(2012size) ==> 10uF(3216size) AVR345/247/347 (2007.01.10)
Update: LOW
*OP_B
TO FRONT PCB
AVR247/347 OPTION(XM)
TO XM& IPOD PCB
T5CC1
IC90
O: PULL_UP
GPIO : Input/Out Port(without pull_up resistor)
AVR345/347 PART (CARRIER OUT SECTION)
AVR345/247/347 PART
*OP_A AVR145 AVR245
RESET IN
REMOTE_IN
REMOTE_OUT
18

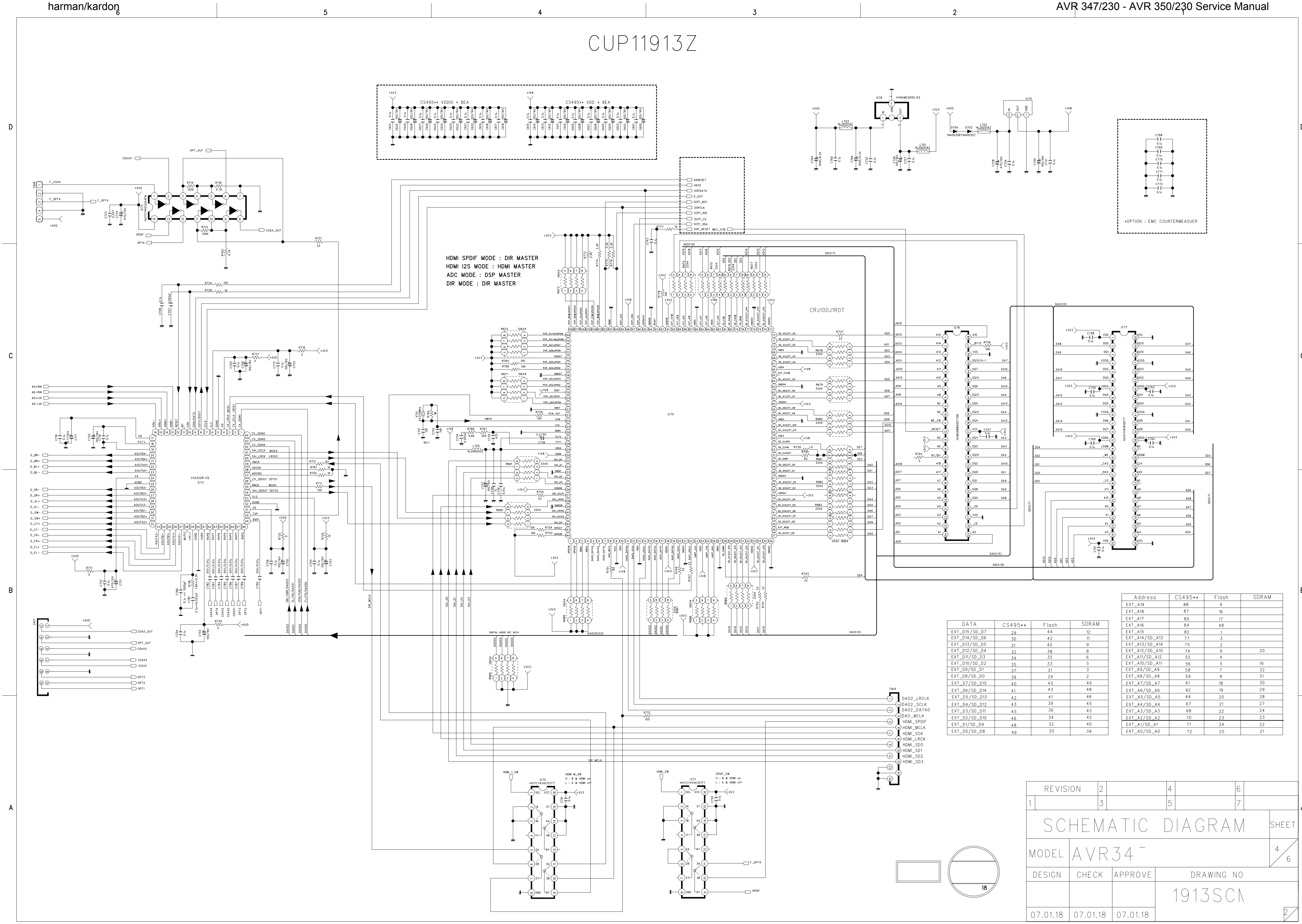
MODEL OPTION TABLE

MODEL	OP_A(PIN48)	OP_B(PIN98)	OP_C(PIN52)
AVR145, 147	HIGH(R792)	LOW(R791)	LOW(R712)
AVR245	LOW(R793)	LOW(R791)	LOW(R712)
NONE	OPEN	LOW(R791)	NOT OPTION
AVR132	LOW(R793)	HIGH(R790)	LOW(R712)
AVR144, 146	HIGH(R792)	HIGH(R790)	LOW(R712)
AVR145/230	HIGH(R792)	LOW(R791)	HIGH(R711)
AVR245/230	LOW(R793)	LOW(R791)	HIGH(R711)
AVR347	HIGH(R792)	LOW(R791)	NOT OPTION
AVR247	LOW(R793)	LOW(R791)	NOT OPTION
AVR345/230	HIGH(R792)	HIGH(R790)	NOT OPTION

REVISION	2		4		6
1	3		5		7

SCHEMATIC DIAGRAM
SHEET
MODEL AVR345/247/347

DESIGN	CHECK	APPROVE	DRAWING NO
J.K			1913SCMZ (CPU)
07.01.18	07.01.18	07.01.18	3


CUP11913Z
CS495** VDDIO * 8EA
CS495** VDD * 8EA
HDMI SPDIF MODE : DIR MASTER
HDMI I2S MODE : HDMI MASTER
ADC MODE : DSP MASTER
DIR MODE : DIR MASTER
CRJ10DJ1ROT
IC75
CS42528-CQ
IC73
IC76
IC77
IC78
IC79
IC70
IC71
*OPTION : EMC COUNTERMEASUER
DIGITAL AUDIO OUT DATA
DAO2_LRCLK
DAO2_SCLK
DAO2_DATA0
DAO_MCLK
HDMI_SPDIF
HDMI_MCLK
HDMI_SCK
HDMI_LRCK
HDMI_SD0
HDMI_SD1
HDMI_SD2
HDMI_SD3
HDMI_M_SW
H : B & HDMI on
L : A & HDMI off
SPDIF_SW
H : B & HDMI on
L : A & HDMI off
18

DATA	CS495**	Flash	SDRAM
EXT_D15/SD_D7	29	44	12
EXT_D14/SD_D6	30	42	11
EXT_D13/SD_D5	31	40	9
EXT_D12/SD_D4	32	38	8
EXT_D11/SD_D3	34	35	6
EXT_D10/SD_D2	35	33	5
EXT_D9/SD_D1	37	31	3
EXT_D8/SD_D0	39	29	2
EXT_D7/SD_D15	40	45	49
EXT_D6/SD_D14	41	43	48
EXT_D5/SD_D13	42	41	46
EXT_D4/SD_D12	43	39	45
EXT_D3/SD_D11	45	36	43
EXT_D2/SD_D10	46	34	42
EXT_D1/SD_D9	48	32	40
EXT_D0/SD_D8	49	30	39

Address	CS495**	Flash	SDRAM
EXT_A19	88	9	
EXT_A18	87	16	
EXT_A17	85	17	
EXT_A16	84	48	
EXT_A15	82	1	
EXT_A14/SD_A13	77	3	
EXT_A13/SD_A14	75	2	
EXT_A12/SD_A10	74	6	20
EXT_A11/SD_A12	55	4	
EXT_A10/SD_A11	56	5	19
EXT_A9/SD_A9	58	7	32
EXT_A8/SD_A8	59	8	31
EXT_A7/SD_A7	61	18	30
EXT_A6/SD_A6	62	19	29
EXT_A5/SD_A5	64	20	28
EXT_A4/SD_A4	67	21	27
EXT_A3/SD_A3	68	22	24
EXT_A2/SD_A2	70	23	23
EXT_A1/SD_A1	71	24	22
EXT_A0/SD_A0	72	25	21

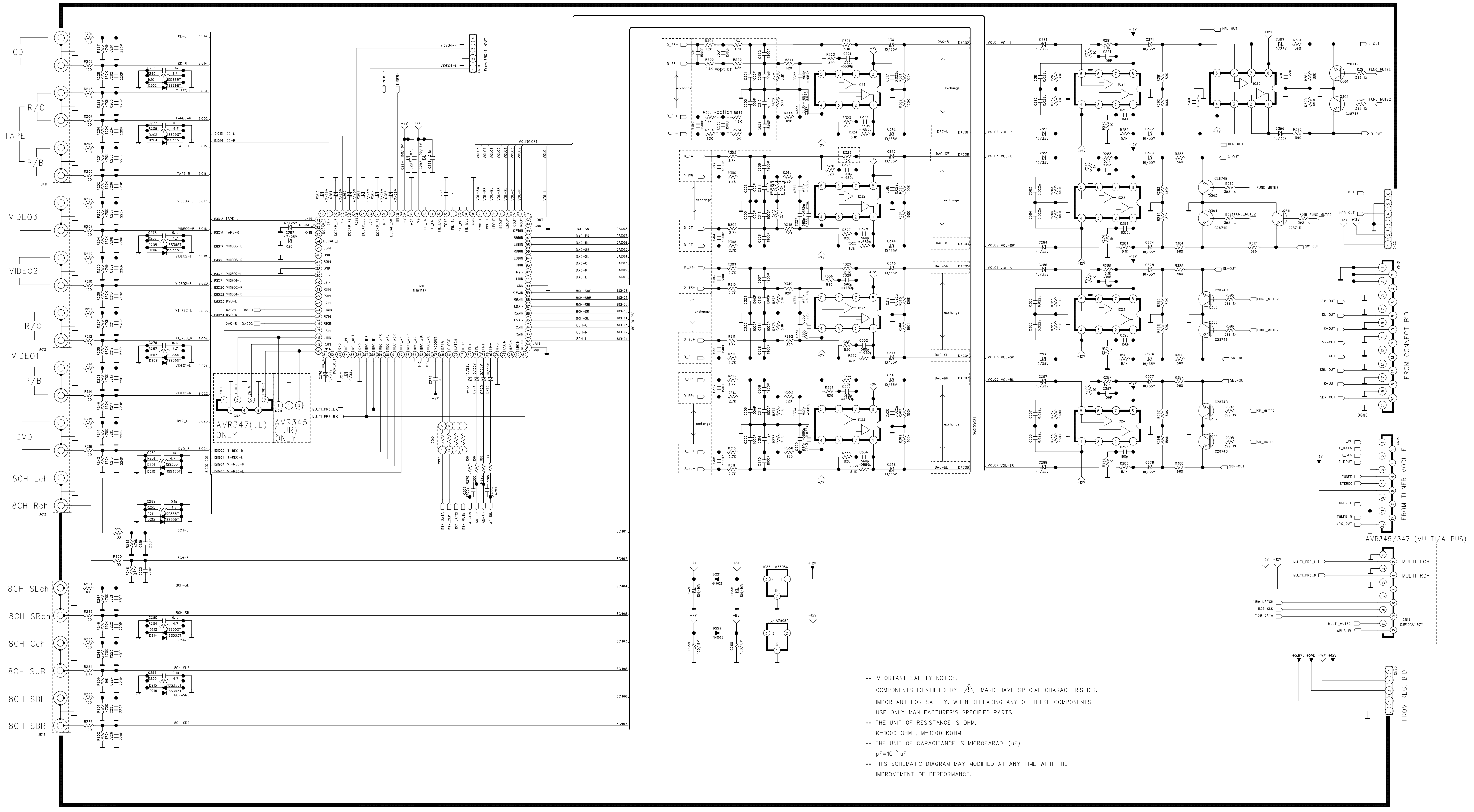
REVISION	2	4	6
1	3	5	7

SCHEMATIC DIAGRAM SHEET 4/6

MODEL AVR34¯

DESIGN	CHECK	APPROVE	DRAWING NO
			1913SCΛ
07.01.18	07.01.18	07.01.18	2

CUP11913Z


CD
TAPE
R/O
P/B
VIDEO3
VIDEO2
VIDEO1
DVD
8CH Lch
8CH Rch
8CH SLch
8CH SRch
8CH Cch
8CH SUB
8CH SBL
8CH SBR
IC20
NJW1197
AVR347(UL) ONLY
AVR345 (EUR) ONLY
MULTI_PRE_L
MULTI_PRE_R
IC31
IC32
IC33
IC34
IC21
IC22
IC23
IC24
IC25
IC36 A7808A
IC37 A7908A
D221 1N4003
D222 1N4003
exchange
FROM CONNECT B'D
FROM TUNER MODULE
AVR345/347 (MULTI/A-BUS)
FROM REG. B'D
MULTI_LCH
MULTI_RCH
L-OUT
R-OUT
HPL-OUT
HPR-OUT
C-OUT
SW-OUT
SL-OUT
SR-OUT
SBL-OUT
SBR-OUT
FUNC_MUTE2
SB_MUTE2
T_CE
T_DATA
T_CLK
T_DOUT
TUNED
STEREO
TUNER-L
TUNER-R
MPX_OUT
1159_LATCH
1159_CLK
1159_DATA
MULTI_MUTE2
ABUS_IR
CN16
CJP12GA115ZY

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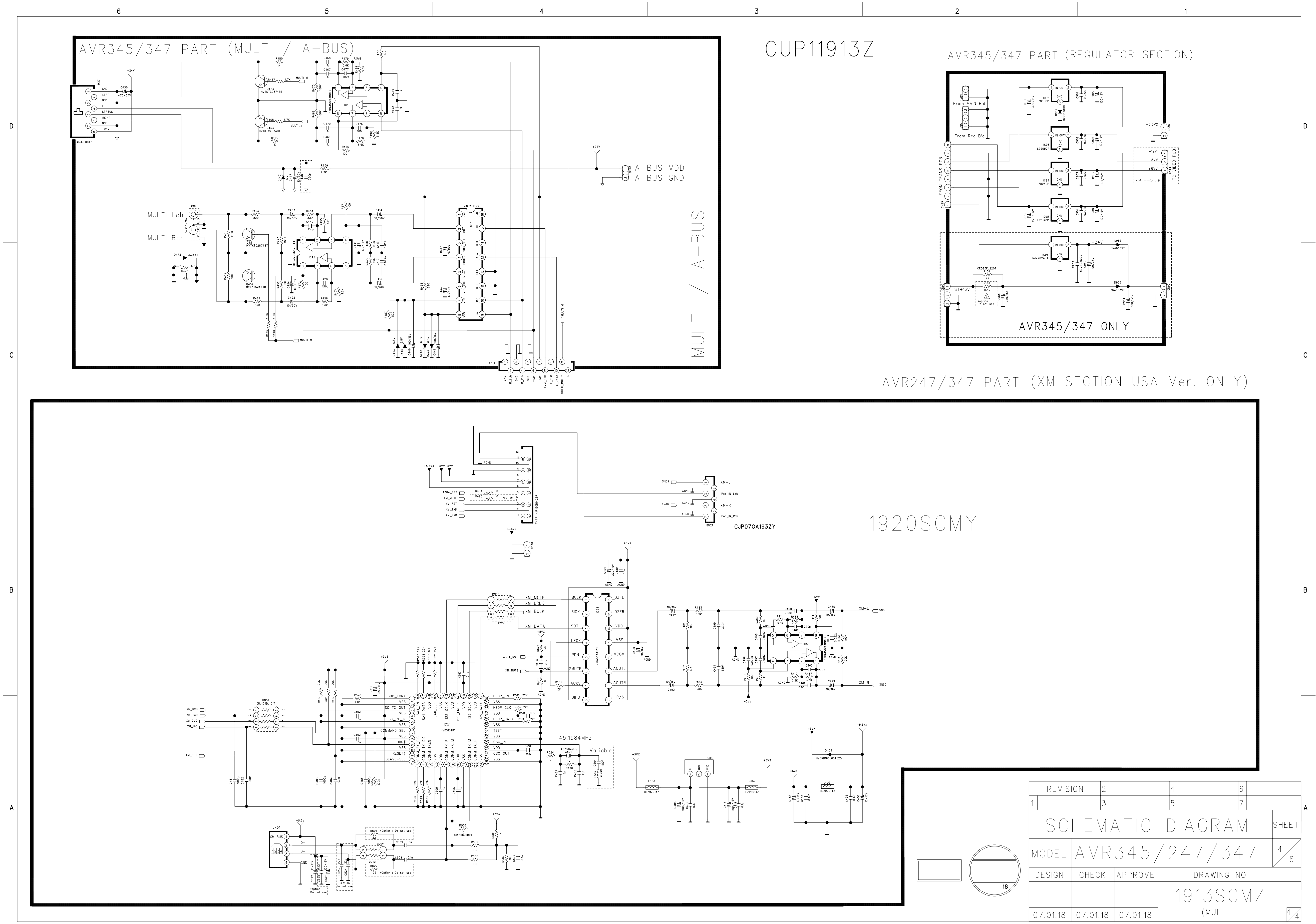
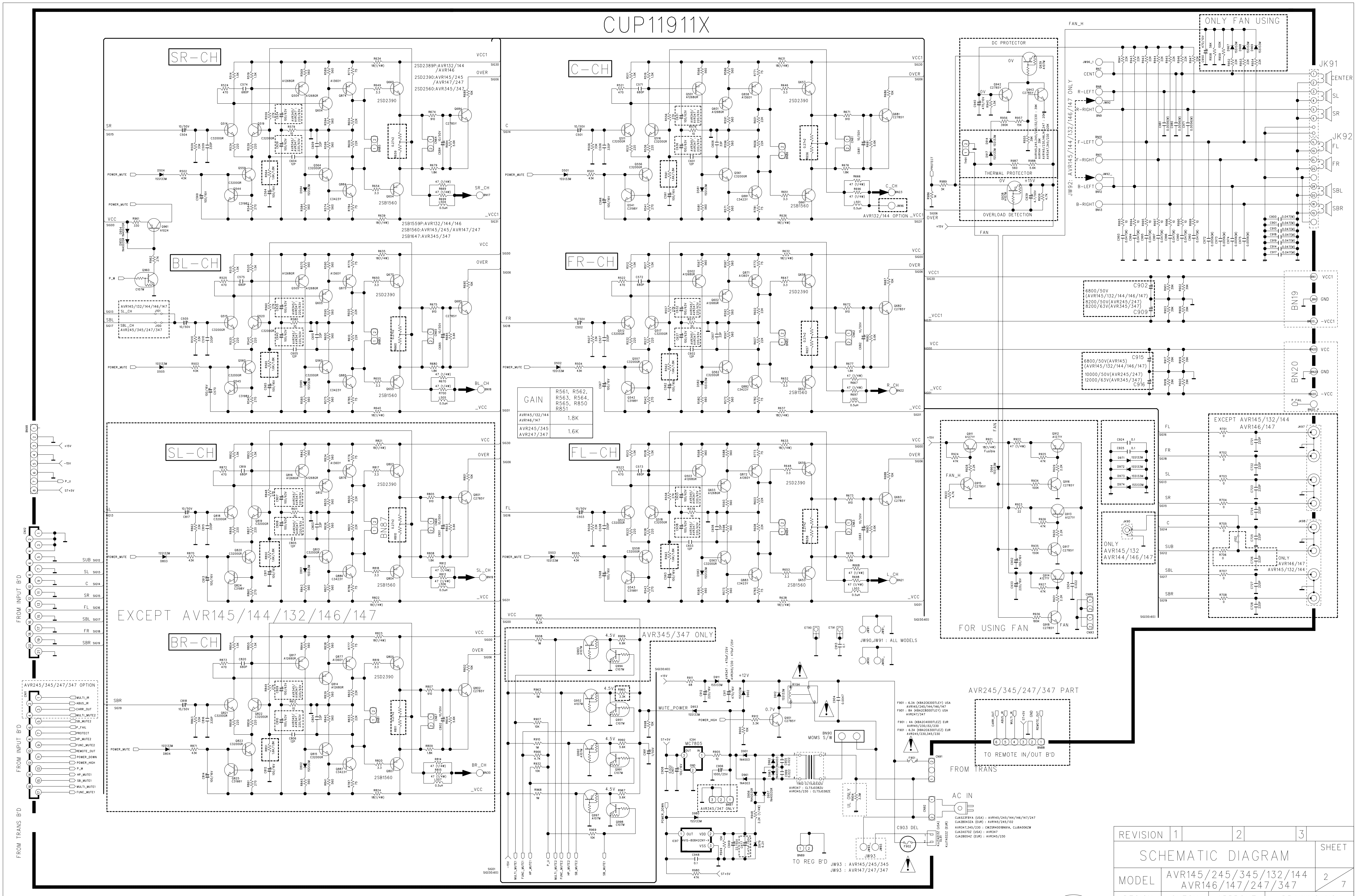
IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS
USE ONLY MANUFACTURER'S SPECIFIED PARTS.
** THE UNIT OF RESISTANCE IS OHM.
K=1000 OHM , M=1000 KOHM
** THE UNIT OF CAPACITANCE IS MICROFARAD. (uF)
pF=10^{-6} uF
** THIS SCHEMATIC DIAGRAM MAY MODIFIED AT ANY TIME WITH THE
IMPROVEMENT OF PERFORMANCE.

REVISION	2		4		6	
1		3		5		7

SCHEMATIC DIAGRAM				SHEET
MODEL	AVR345/247/347			4/6
DESIGN	CHECK	APPROVE	DRAWING NO	
07.01.18	07.01.18	07.01.18	1913SCMZ (INPU	1/4

18

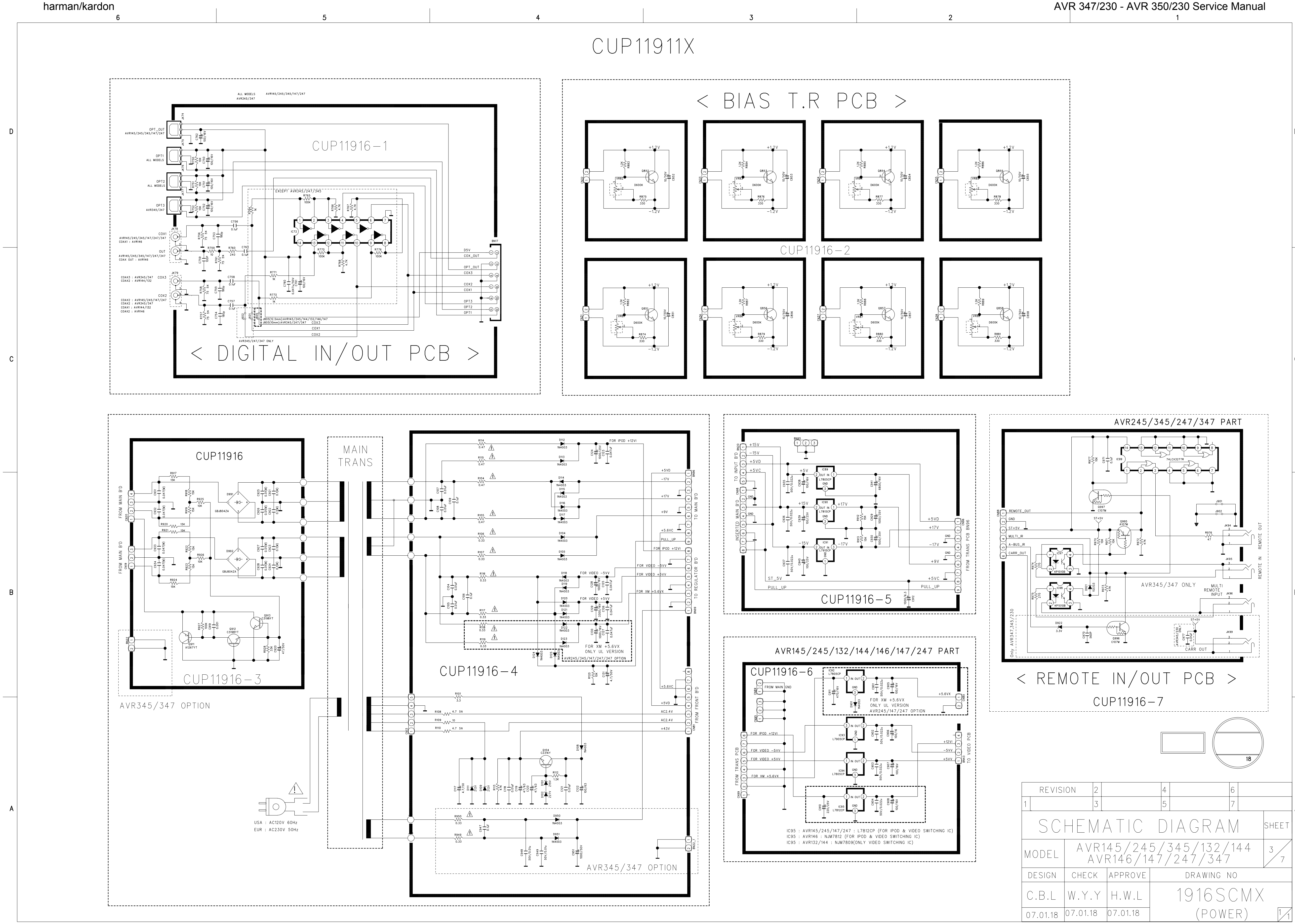

6
5
4
3
2
1
D
C
B
A
AVR345/347 PART (MULTI / A-BUS)
CUP11913Z
AVR345/347 PART (REGULATOR SECTION)
JK17
GND
LEFT
GND
STATUS
RIGHT
GND
+24V
KJJ9L004Z
Q454 HVTKTC2874BT
Q453 HVTKTC2874BT
IC50
MULTI_M
A-BUS VDD
A-BUS GND
+24V
MULTI Lch
MULTI Rch
JK16
Q451 HVTKTC2874BT
Q452 HVTKTC2874BT
IC45
IC44
HVINJM7159V
MULTI / A-BUS
BN16
GND
M_Lch
GND
M_Rch
GND
+12V
-12V
EVM_STB
E_CLK
E_DATA
MULTI_MUTE2
IR
CN89
From MAIN B'd
CN95
From Reg B'd
FROM TRANS PCB
CN99
IC92 L7805CP
D902 HVD1N5819T
IC93 L7905CP
IC94 L7805CP
IC95 L7812CP
IC96 NJM7824FA
IN OUT
GND
+5.6VX
CN85
+12VI
-5VV
+5VV
BN43
TO VIDEO PCB
4P --> 3P
+24V
D955 1N4003ST
D956 1N4003ST
CRD25FJ220T
R104 22
R103 0.47
*option Do not use
CN97
ST+16V
CN90
AVR345/347 ONLY
AVR247/347 PART (XM SECTION USA Ver. ONLY)
+5.6VX
-5VV
+5VV
AGND
4384_RST
XM_MUTE
XM_RST
XM_TXD
XM_RXD
R494 0
R493 0
*option
CN23 KJP12GB142ZP
SN59
SN60
XM-L
iPod_IN_Lch
XM-R
iPod_IN_Rch
BN21
CJP07GA193ZY
BN85
1920SCMY
+5VX
RN50
XM_MCLK
XM_LRLK
XM_BCLK
XM_DATA
MCLK
BICK
SDTI
LRCK
PDN
SMUTE
ACKS
DIFO
DZFL
DZFR
VDD
VSS
VCOM
AOUTL
AOUTR
P/S
IC52
XM-L
XM-R
IC53
+5VV
-5VV
+3V3
XM_RXD
XM_TXD
XM_CMD
XM_IRQ
XM_RST
RN51
LSDP_TXRX
SC_TX_OUT
SC_RX_IN
COMMAND_SEL
IRQ#
RESET#
SLAVE-SEL
IC51
HVIXM0TIC
HSDP_EN
HSDP_CLK
HSDP_DATA
TEST
OSC_IN
OSC_OUT
45.1584MHz
X501
Variable
IC54
L503
L504
+5.6VX
D404
L403
JK51
XM BUS
D-
D+
GND
RN52
*option : Do not use
REVISION
SCHEMATIC DIAGRAM
SHEET
MODEL
AVR345/247/347
4/6
DESIGN
CHECK
APPROVE
DRAWING NO
1913SCMZ
(MULI
07.01.18
07.01.18
07.01.18
4/4
18


CUP11911X
SR-CH
C-CH
BL-CH
FR-CH
SL-CH
FL-CH
BR-CH
EXCEPT AVR145/144/132/146/147
2SD2389P:AVR132/144/AVR146
2SD2390:AVR145/245/AVR147/247
2SD2560:AVR345/347
2SB1559P:AVR132/144/146
2SB1560:AVR145/245/AVR147/247
2SB1647:AVR345/347
GAIN
R561, R562, R563, R564, R565, R850 R851
AVR145/132/144 AVR146/147 1.8K
AVR245/345 AVR247/347 1.6K
DC PROTECTOR
THERMAL PROTECTOR
OVERLOAD DETECTION
ONLY FAN USING
JW92: AVR145/144/132/146/147 ONLY
JK91
CENTER
SL
SR
JK92
FL
FR
SBL
SBR
BN19
BN20
6800/50V (AVR145/132/144/146/147)
8200/50V(AVR245/247)
8200/63V(AVR345/347)
C902
C909
6800/50V(AVR145)
(AVR145/132/144/146/147)
10000/50V(AVR245/247)
12000/63V(AVR345/347)
C915
C916
EXCEPT AVR145/132/144 AVR146/147
FOR USING FAN
ONLY AVR145/132 AVR144/146/147
ONLY AVR146/147 AVR145/132/144
AVR345/347 ONLY
JW90,JW91 : ALL MODELS
AVR245/345/247/347 PART
TO REMOTE IN/OUT B'D
FROM TRANS
AC IN
TO REG B'D
JW93 : AVR145/245/345
JW93 : AVR147/247/347
AVR132/144 OPTION
AVR145/132/144/146/147 SL_CH
SBL_CH AVR245/345/247/347
AVR245/345/247/347 OPTION
FROM INPUT B'D
FROM TRANS B'D
MUTE_POWER
MOMS S/W
MC7805
C903 DEL
F901 : 6.3A (KBA2C6300TLEY) USA AVR145/245/144/146/147
F901 : 8A (KBA2C8000TLEY) USA AVR247/347
F901 : 4A (KBA2C4000TLEZ) EUR AVR145/230/132/230
F901 : 6.3A (KBA2C6300TLEZ) EUR AVR245/230/345/230
UL ONLY

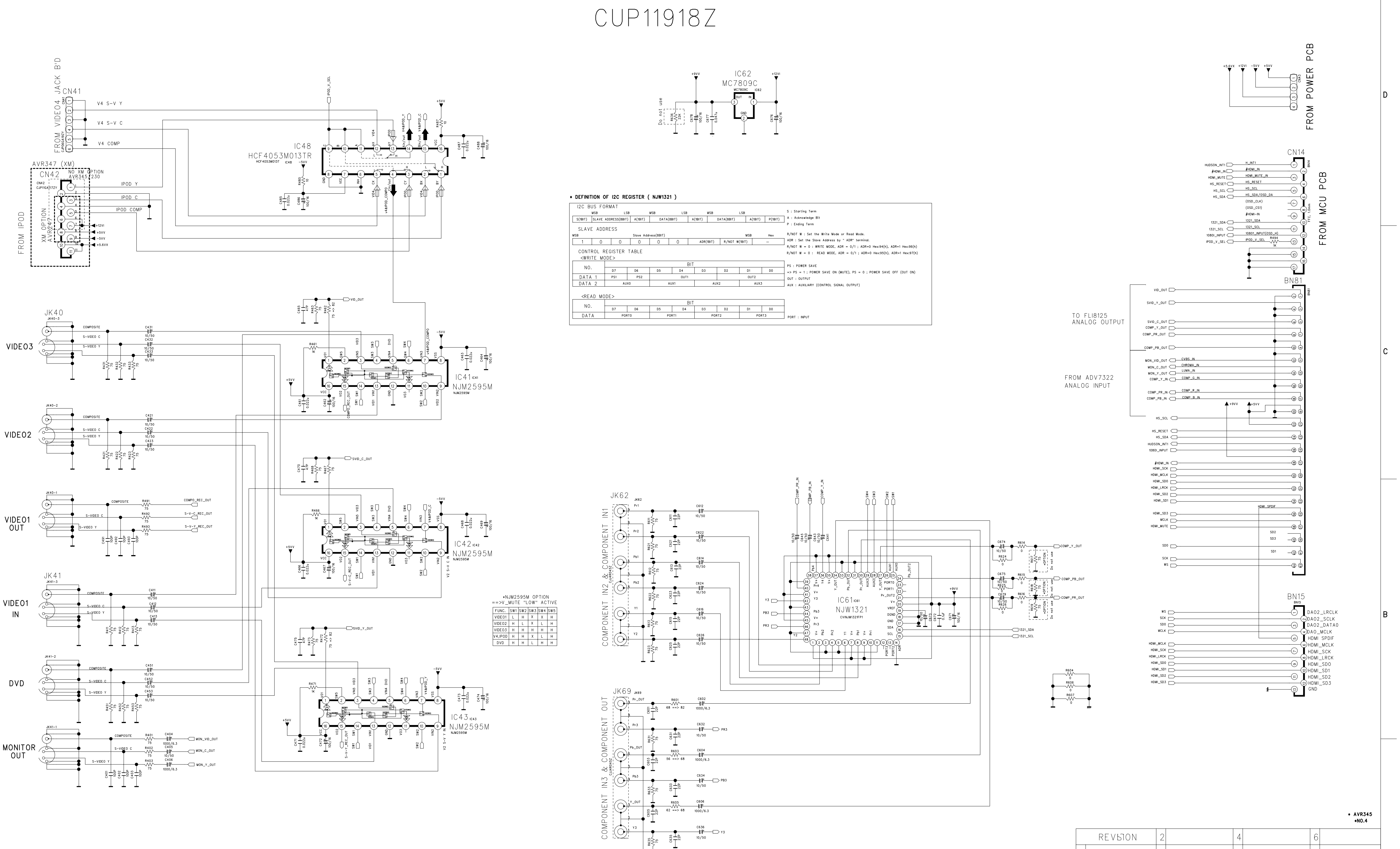
** IMPORTNAT SAFETY NOTICE.
INPORTANT FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS
USE ONLY MANUFACTURE'S SPECIFIED PARTS.
** THE UNIT OF RESISTANCE IS OHM.
K=1000 OHM, M=1000 KOHM.
** THE UNIT OF CAPACITANCE IS MICROFARAD (uF)
pF = 10^{-6} uF
** THIS SCHEMATIC DIAGRAM MAY MODIFIED AT ANY TIME WIHE THE
IMPROVEMENT OF PERFORMANCE

REVISION	1	2	3

SCHEMATIC DIAGRAM			SHEET
MODEL	AVR145/245/345/132/144 AVR146/147/247/347		2/7
DESIGN	CHECK	APPROVE	DRAWING NO
07.03.14	07.03.14	07.03.14	1911SC (MAIN) 1/1


CUP11911X
< DIGITAL IN/OUT PCB >
CUP11916-1
< BIAS T.R PCB >
CUP11916-2
CUP11916
CUP11916-3
AVR345/347 OPTION
MAIN TRANS
CUP11916-4
AVR345/347 OPTION
USA : AC120V 60Hz
EUR : AC230V 50Hz
CUP11916-5
AVR145/245/132/144/146/147/247 PART
CUP11916-6
IC95 : AVR145/245/147/247 : L7812CP (FOR IPOD & VIDEO SWITCHING IC)
IC95 : AVR146 : NJM7812 (FOR IPOD & VIDEO SWITCHING IC)
IC95 : AVR132/144 : NJM7809(ONLY VIDEO SWITCHING IC)
AVR245/345/247/347 PART
< REMOTE IN/OUT PCB >
CUP11916-7
AVR345/347 ONLY
REVISION
SCHEMATIC DIAGRAM
SHEET 3/7
MODEL AVR145/245/345/132/144 AVR146/147/247/347
DESIGN C.B.L 07.01.18
CHECK W.Y.Y 07.01.18
APPROVE H.W.L 07.01.18
DRAWING NO 1916SCMX (POWER)
1/1

CUP11918Z


6
5
4
3
2
1
D
C
B
A
FROM VIDEO4 JACK B'D
CN41
V4 S-V Y
V4 S-V C
V4 COMP
AVR347 (XM)
CN42
NO XM OPTION
AVR345,230
XM OPTION
AVR247
FROM IPOD
IPOD Y
IPOD C
IPOD COMP
+12VI
+5VV
-5VV
+5.6VX
IPOD_V_SEL
IC48
HCF4053M013TR
IC62
MC7809C
Do not use
FROM POWER PCB
CN14
FROM MCU PCB
HUDSON_INT1
#HDMI_IN
HDMI_MUTE
HS_RESET
HS_SCL
HS_SDA
H_INT1
HDMI_MUTE_IN
HS_SDA/OSD_DA
(OSD_CLK)
(OSD_CS1)
#HDMI-IN
1321_SDA
1321_SCL
1080I_INPUT
10801_INPUT(OSD_H)
IPOD_V_SEL
R494
1K
FFC, 1.0mm
BN81
TO FLI8125
ANALOG OUTPUT
FROM ADV7322
ANALOG INPUT
VID_OUT
SVID_Y_OUT
SVID_C_OUT
COMP_Y_OUT
COMP_PR_OUT
COMP_PB_OUT
MON_VID_OUT
MON_C_OUT
MON_Y_OUT
COMP_Y_IN
COMP_PR_IN
COMP_PB_IN
CVBS_IN
CHROMA_IN
LUMA_IN
COMP_G_IN
COMP_R_IN
COMP_B_IN
+9VV
+5VV
HDMI_SCK
HDMI_MCLK
HDMI_SD0
HDMI_LRCK
HDMI_SD2
HDMI_SD1
HDMI_SPDIF
HDMI_SD3
MCLK
SD2
SD3
SD0
SD1
SCK
WS
BN15
DAO2_LRCLK
DAO2_SCLK
DAO2_DATA0
DAO_MCLK
HDMI SPDIF
GND
JK40
VIDEO3
VIDEO2
VIDEO1 OUT
JK41
VIDEO1 IN
DVD
MONITOR OUT
COMPOSITE
S-VIDEO C
S-VIDEO Y
IC41
NJM2595M
IC42
NJM2595M
IC43
NJM2595M
JK62
COMPONENT IN2 & COMPONENT IN1
JK69
COMPONENT IN3 & COMPONENT OUT
IC61
NJW1321
COMP_Y_OUT
COMP_PR_OUT
COMP_PB_OUT
1321_SDA
1321_SCL
PR3
PB3
Y3
29

*** DEFINITION OF I2C REGISTER (NJW1321)**

I2C BUS FORMAT

	MSB	LSB		MSB	LSB		MSB	LSB		
S(1BIT)	SLAVE ADDRESS(8BIT)		A(1BIT)	DATA(8BIT)		A(1BIT)	DATA(8BIT)		A(1BIT)	P(1BIT)

SLAVE ADDRESS

MSB	Slave Address(8BIT)						MSB	Hex
1	0	0	0	0	0	ADR(1BIT)	R/NOT W(1BIT)	–

CONTROL REGISTER TABLE

<WRITE MODE>

NO.	BIT							
	D7	D6	D5	D4	D3	D2	D1	D0
DATA 1	PS1	PS2	OUT1			OUT2		
DATA 2	AUX0		AUX1		AUX2		AUX3	

<READ MODE>

NO.	BIT							
	D7	D6	D5	D4	D3	D2	D1	D0
DATA	PORT0		PORT1		PORT2		PORT3	

S : Starting Term
A : Acknowledge Bit
P : Ending Term

R/NOT W : Set the Write Mode or Read Mode.
ADR : Set the Slave Address by " ADR" terminal.
R/NOT W = 0 : WRITE MODE, ADR = 0/1 ; ADR=0 Hex:94(h), ADR=1 Hex:96(h)
R/NOT W = 0 : READ MODE, ADR = 0/1 ; ADR=0 Hex:95(h), ADR=1 Hex:97(h)

PS : POWER SAVE
=> PS = 1 ; POWER SAVE ON (MUTE), PS = 0 ; POWER SAVE OFF (OUT ON)
OUT : OUTPUT
AUX : AUXILIARY (CONTROL SIGNAL OUTPUT)

PORT : INPUT

*NJM2595M OPTION
==>V_MUTE "LOW" ACTIVE

FUNC.	SW1	SW2	SW3	SW4	SW5
VIDEO1	L	H	X	X	H
VIDEO2	H	L	X	L	H
VIDEO3	H	H	H	H	H
V4,IPOD	H	H	X	L	H
DVD	H	H	L	H	H

* AVR345
*NO.4

REVISION		2		4		6	
1		3		5		7	
SCHEMATIC DIAGRAM							SHEET
MODEL	AVR345/247/347						5/6
DESIGN	CHECK	APPROVE	DRAWING NO				
.L			1918SCMZ (VIDEO)				1/1
		07.					